

Adipogen International is a manufacturer of comprehensive panels of new and innovative products for the advancement of

Cancer Research



Periostin – Cancer Stem Cell Marker

Specific Periostin Antibodies

anti-Periostin, mAb (Stiny-1)

AG-20B-0033-C100 100 µg
AG-20B-0033B-C100 Biotin 100 µg

CLONE: Stiny-1. **ISOTYPE:** Mouse IgG1κ. **IMMUNOGEN:** Full-length human periostin. **SPECIFICITY:** Recognizes human and mouse periostin. **APPLICATION:** ELISA, IHC (FS, PS), WB.

LIT: Interactions between cancer stem cells and their niche govern metastatic colonization: I. Malanchi, et al.; Nature 481, 85 (2012)

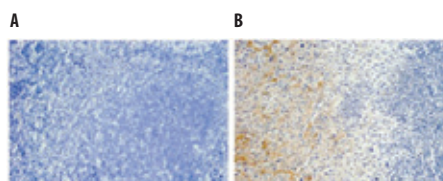


FIGURE: Immunohistochemical staining of endogenous human Periostin in normal breast (A) and human breast cancer (B) tissues (paraffin sections) by using Periostin, mAb (Stiny-1) (Prod. No. AG-20B-0033).

Highly Sensitive Periostin ELISA Kits



Periostin (human) ELISA Kit

AG-45B-0004-KI01 96 wells
Species Reactivity: Human
Sensitivity: 15 pg/ml
Range: 78 to 5000 pg/ml
Detection Type: Colorimetric
Assay Type: Sandwich
Sample Type: Cell Culture Supernatant, Plasma, Serum

Periostin (mouse) ELISA Kit

AG-45B-0005-KI01 96 wells
Species Reactivity: Mouse
Sensitivity: 10 pg/ml
Range: 31 to 2000 pg/ml
Detection Type: Colorimetric
Assay Type: Sandwich
Sample Type: Cell Culture Supernatant, Plasma, Serum

UNIQUE

Posttranslational Modification-Specific Tubulin Antibodies

| | | | |
|------------|--|-----------------|-------------|
| NEW | anti- α -Tubulin (acetylated), mAb (TEU318) | ICC, WB | AG-20B-0068 |
| NEW | anti-Polyglutamate chain (polyE), pAb (IN105) | ICC, WB | AG-25B-0030 |
| NEW | anti-Polyglutamylation Modification, mAb (GT335) | EM, ICC, IP, WB | AG-20B-0020 |

Multimeric Proteins

**Higher Activity
Lower Endotoxin**



AdipoGen® Multimeric Proteins are high activity constructs in which two trimeric TNFSF ligands are linked via the oligomeric collagen domain of ACRP30 [ACRP30*headless*] and therefore mimic the membrane-bound forms of the proteins.

FasL (human) (multimeric) (rec.)

AG-40B-0130-C010 10 µg
AG-40B-0130-3010 MultiPack 3 x 10 µg

MultimericFasL™ very effectively simulates the natural membrane-assisted aggregation of FasL *in vivo*. Induces apoptosis of human Jurkat T cells at a concentration of <1ng/ml.

LITERATURE: A Fas agonist induces high levels of apoptosis in haematological malignancies: P. Greaney, et al.; Leuk. Res. 30, 415 (2006)

CD40L (human) (multimeric) (rec.) AG-40B-0010
CD40L (mouse) (multimeric) (rec.) AG-40B-0020
CD40L (rat) (multimeric) (rec.) AG-40B-0107

MultimericCD40L™ very effectively mimics the natural membrane-assisted aggregation of CD40L. Potent B cell activator.

LITERATURE: IgG subclass switch capacity is low in switched and in IgM-only, but high in IgD+IgM+, post-germinal center (CD27+) human B cells: C. Werner-Favre, et al.; Eur. J. Immunol. 31, 243 (2001)

BULK

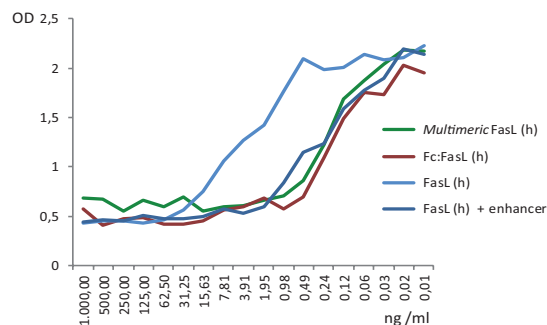


FIGURE: Oligomerisation of FasL efficiently triggers Jurkat cell death.

METHOD: Jurkat cells were treated O/N with the indicated concentrations of several FasL proteins (2 fold-dilutions, first concentration of 1000ng/ml). Cell death was quantified using PMS/MTS. The oligomeric FasL recombinant proteins (FasL (human) (multimeric) (rec.), Fc:FasL, Soluble (human) and FasL, Soluble (human) + Enhancer) kill Jurkat cells at IC₅₀ <0.2ng/ml.

Visit www.adipogen.com for complete Range of Multimeric Proteins!

BULK

Potent CD40 Functional Antibody with many Citations!

anti-CD40 (mouse), mAb (FGK45)
Activates B and NK cells *in vivo* and *in vitro*!

FACS, FUNC (Activation)

AG-20B-0036

Potent Cell Death Antibodies

THE STANDARDS

| | | |
|---|---------------------------------|-------------|
| anti-Fas (human), mAb (APO-1-3) Induces apoptosis! | FACS, FUNC (Activation), IP, WB | AG-20B-0062 |
| anti-Apaf-1 (human), mAb (2E12) | ICC, IHC, IP, WB | AG-20T-0132 |
| anti-Apaf-1 (mouse/rat), mAb (13F11) | ICC, IP, WB | AG-20T-0133 |
| anti-Bim _{S/EL/L} , mAb (3C5) | FACS, ICC, IHC, IP, WB | AG-20T-0142 |
| anti-Bmf, mAb (9G10) | FACS, IP, WB | AG-20T-0130 |
| anti-Bmf (mouse/rat), mAb (17A9) | FACS, ICC, IHC, IP, WB | AG-20T-0131 |
| anti-Caspase-2, mAb (11B4) | IP, WB | AG-20T-0136 |
| anti-Caspase-8 (human), mAb (C15) | ICC, IP, WB | AG-20B-0057 |
| anti-Caspase-8 (mouse), mAb (1G12) | FACS, ICC, WB | AG-20T-0137 |
| anti-FLIP (human), mAb (NF6) | ICC, IHC, WB | AG-20B-0056 |
| anti-FLIP, mAb (Dave-2) | IP, WB | AG-20B-0005 |

Visit www.adipogen.com for a Broad Range of Cell Death-related Antibodies and Inhibitors!

Highly Potent TRAIL Reagents

BULK

Oligomerized TRAIL protein non-toxic to hepatocytes, suitable for *in vitro* and *in vivo* use.

izTRAIL™, Soluble (human) (rec.) AG-40B-0069

Oligomerized TRAIL proteins that do not require a cross-linking enhancer for their potent biological activity.

KillerTRAIL™, (human) (rec.) AG-40T-0001

SuperKillerTRAIL™, (human) (rec.) AG-40T-0002

SuperKillerTRAIL™, (mouse) (rec.) AG-40T-0004

Also available:

TRAIL, Soluble (human) (rec.) AG-40B-0003

EnhancedTRAIL, (human) (rec.) Pack AG-44B-0002

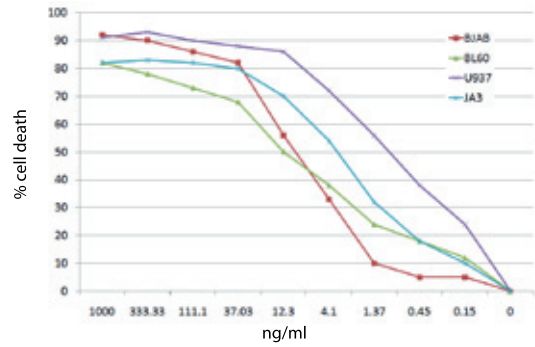


FIGURE: Apoptosis of TRAIL-sensitive tumor cells. Concentration dependence of apoptosis induction in BJAB cells, BL60-cells, U937-cells, and J43-cells by izTRAIL, Soluble (human) (rec.) (Prod. No. AG-40B-0069) reveals high activity even at concentrations of 10-100ng/ml.

Visit www.adipogen.com for Highly Specific TRAIL-R Antibodies for FACS and IHC!

Potent Immune Checkpoints Receptor & Ligand Proteins

BULK

| | | | |
|--|----------------|---|----------------|
| CTLA-4 (human):Fc (human) (rec.) | CHI-HF-210A4 | Tim-3 (mouse):Fc (human) (rec.) | CHI-MF-111T3 |
| CTLA-4 (mouse):Fc (mouse) (rec.) | CHI-MF-110A4 | CD40 (human):Fc (human) (rec.) | AG-40B-0083 |
| CTLA-4 (mouse):Fc (mouse) (rec.) (non-lytic) | CHI-MF-120A4 | OX40 (human):Fc (human) (rec.) | AG-40B-0014 |
| PD-1 (human):Fc (human) (rec.) | CHI-HF-210PD1 | PD-L1 (human):Fc (human) (rec.) | CHI-HF-210PDL1 |
| PD-1 (human):Fc (human) (rec.) (non-lytic) | CHI-HF-220PD1 | PD-L1 (human):Fc (human) (rec.) (non-lytic) | CHI-HF-220PDL1 |
| ICOS (human):Fc (human) (rec.) | CHI-HF-210ICOS | PD-L1 (mouse):Fc (mouse) (rec.) | CHI-MF-110PDL1 |
| ICOS (human):Fc (human) (rec.) (non-lytic) | CHI-HF-220ICOS | PD-L1 (mouse):Fc (mouse) (rec.) (non-lytic) | CHI-MF-120PDL1 |
| LAG-3 (human):Fc (human) (rec.) | AG-40B-0031 | PD-L2 (human):Fc (human) (rec.) (non-lytic) | CHI-HF-220PDL2 |
| LAG-3 (mouse):Fc (mouse) (rec.) | AG-40B-0039 | ICOSL (mouse):Fc (mouse) (rec.) | CHI-MF-110B7H2 |
| Tim-3 (human):Fc (human) (rec.) | CHI-HF-210T3 | B7-H4 (human):Fc (human) (rec.) | CHI-HF-210B7H4 |

Immune Checkpoints Antibodies

SPECIES Abbreviations:

Hu = Human; Ms = Mouse; Mk = Monkey; Prm = Primate

| PID | PRODUCT NAME | SOURCE/ISOTYPE | APPLICATION | SPECIES |
|-------------|--|----------------|--|---------|
| ANC-176-020 | CD27 (human), mAb (M-T271) | Ms IgG1 | ELISA, FACS | Hu |
| ANC-359-020 | CD152 [CTLA-4] (human), mAb (ANC152.2/8H5) | Ms IgG1κ | ELISA, FACS | Hu |
| AG-20B-0049 | CD272 [BTLA] (human), mAb (6F4) | Rt IgG1 | ELISA, FACS, FUNC (Blocking) | Hu |
| ANC-265-020 | CD278 [ICOS] (human), mAb (ANC6C6) | Ms IgG1κ | ELISA, FACS, FUNC (Blocking) | Hu |
| ANC-279-020 | CD279 [PD-1] (human), mAb (ANC4H6) | Ms IgG1κ | ELISA, FACS | Hu |
| AG-20B-0012 | LAG-3 (human), mAb (blocking) (17B4) | Ms IgG1 | FUNC (Blocking), ICC, IHC, IP, WB | Hu |
| AG-20B-0011 | LAG-3, mAb (blocking) (11E3) | Ms IgG1 | ELISA, FUNC (Blocking), ICC, IHC, IP, WB | Hu, Mk |
| AG-20A-0030 | Tim-3 (mouse), mAb (TI 142F) | Rt IgG2ak | ELISA, FACS | Ms |
| ANC-177-020 | CD28 (human), mAb (ANC28.1/5D10) | Ms IgG1κ | ELISA, FACS, FUNC | Hu |
| ANC-355-020 | CD134 [OX40] (human), mAb (BerAct35) | Ms IgG1 | ELISA, FACS, IHC | Hu |
| ANC-360-020 | CD137 [4-1BB] (human), mAb (4B4-1) | Ms IgG1κ | ELISA, FACS, FUNC (Blocking) | Hu, Mk |
| ANC-274-020 | CD274 [B7-H1/PD-L1] (human), mAb (ANC6H1) | Ms IgG1κ | ELISA, FACS | Hu |
| ANC-100-020 | CD80 [B7-1] (human), mAb (BB1) | Ms IgMκ | ELISA, FACS, FUNC (Blocking), WB | Hu, Prm |
| ANC-110-020 | CD80 [B7-1] (human), mAb (P1.H1.A1.A1) | Ms IgG1 | ELISA, FACS, FUNC (Blocking) | Hu |
| ANC-307-020 | CD86 (human), mAb (BU63) | Ms IgG1 | FACS, FUNC (Blocking) | Hu, Prm |
| ANC-263-020 | CD275 [B7-H2/ICOSL] (human), mAb (ANC4E3) | Ms IgG1κ | ELISA | Hu |
| ANC-353-020 | CD40L [CD154] (human), mAb (24-31) | Ms IgG1 | ELISA, FACS, FUNC (Blocking), IHC, WB | Hu, Prm |
| ANC-222-020 | CD70 (human), mAb (BU69) | Ms IgG1 | ELISA, FACS, FUNC (Blocking), ICC, IHC | Hu, Prm |
| AG-20A-0031 | CD137L [4-1BBL] (human), mAb (41B436) | Ms IgG1κ | ELISA, FACS, WB | Hu |
| ANC-400-020 | CD252 [OX40L] (human), mAb (ANC10G1) | Ms IgG1κ | ELISA, FACS, FUNC (Blocking) | Hu |
| ANC-270-020 | CD270 [HVEM] (human), mAb (ANC3B7) | Ms IgG2ak | ELISA, FACS | Hu |

Inflammasome Research Antibodies

THE STANDARDS

Unique NLRP3 Antibody

anti-NLRP3/NALP3, mAb (Cryo-2)
ICC, IHC, IP, WB AG-20B-0014-C100

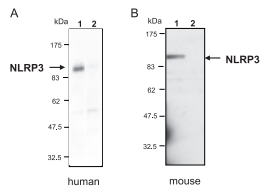


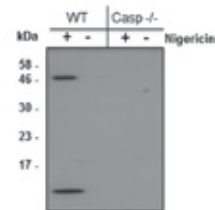
FIGURE: Human and mouse NLRP3/NALP3 are detected in THP1 cells or mouse macrophages, respectively, using anti-NLRP3/NALP3, mAb (Cryo-2) (Prod. No. AG-20B-0014) but not in THP1 expressing shRNA-hNLRP3 (A, lane 2) or NLRP3/NALP3 KO mce (B, lane 2).

Detect Activated p10 & p20 Caspase-1 by WB

anti-Caspase-1 (p10) (mouse), mAb (Casper-2) AG-20B-0044
anti-Caspase-1 (p20) (mouse), mAb (Casper-1) AG-20B-0042
anti-Caspase-1 (p20) (human), mAb (Bally-1) AG-20B-0048

FIGURE: Mouse caspase-1 (p10) is detected by immunoblotting using anti-Caspase-1 (p10) (mouse), mAb (Casper-2) (Prod. No AG-20B-0044).

METHOD: Caspase-1 was analyzed by Western blot in supernatants of differentiated bone marrow-derived dendritic cells (BMDCs) from wild-type and caspase-1^{-/-} mice activated or not by 5μM nigericin (Prod. No. AG-CN2-0020) for 30 min. Supernatants (30μl) were separated by SDS-PAGE under reducing conditions, transferred to nitrocellulose and incubated with anti-Caspase-1 (p10) (mouse), mAb (Casper-2) (1μg/ml). Proteins were visualized by a chemiluminescence detection system.



LITERATURE REFERENCES FOR CASPASER-1, CASPASER-2 AND CRYO-2: The adaptor ASC has extracellular and 'prionoid' activities that propagate inflammation: B.S. Franklin, et al.; Nat. Immunol. 15, 727 (2014) · The NLRP3 inflammasome is released as a particulate danger signal that amplifies the inflammatory response: A. Baroja-Mazo, et al.; Nat. Immunol. 15, 738 (2014)

| | | |
|---|------------------------|-------------|
| anti-Asc [Pycard], pAb (AL177) | ICC, IHC, IP, WB, FUNC | AG-25B-0006 |
| anti-AIM2 (human), mAb (3B10) | ICC, WB | AG-20B-0040 |
| anti-Caspase-4/11 (p20), mAb (Flamy-1) | IP, WB | AG-20B-0060 |
| anti-Caspase-11 (p20) (mouse), mAb (Flamy-2) | ELISA, WB | AG-20B-0061 |
| anti-RIG-I, mAb (Alme-1) | IHC, IP, WB | AG-20B-0009 |

Biologically Active Notch Ligands

BULK

| | | | |
|---------------------------------------|--------------|--|--------------|
| DLK1 (human) (rec.) | AG-40A-0133 | DLL3 (human) (rec.) | AG-40B-0151 |
| DLK1 (human):Fc (human) (rec.) | AG-40B-0152 | DLL3 (ED) (mouse):Fc (human) (rec.) | AG-40A-0178 |
| DLK1 (mouse):Fc (human) (rec.) | AG-40A-0107Y | DLL4 (human):Fc (human) (rec.) | AG-40A-0077Y |
| DLL1 (human) (rec.) | AG-40A-0073 | DLL4 (mouse):Fc (human) (rec.) | AG-40A-0145 |
| DLL1 (human):Fc (human) (rec.) | AG-40A-0116Y | Jagged-1 (human):Fc (human) (rec.) | AG-40A-0081 |
| DLL1 (mouse):Fc (human) (rec.) | AG-40A-0148 | Jagged-2 (human):Fc (human) (rec.) | AG-40A-0155Y |

Visit www.adipogen.com for an Overview on Notch Signaling Proteins, Antibodies and ELISA Kits!

THE SOURCE

Broad Range of Small Molecule Modulators

Hedgehog | Protein Kinases PI3K - CDK - GSK - PKC | PARP | SIRT and much more !