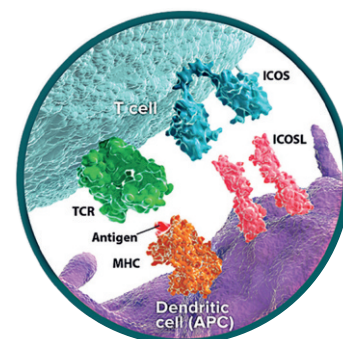


ICOS – ICOSL Pathway

Inducible T Cell Co-Stimulator (ICOS; CD278) is an activating receptor expressed on the surface of activated cytotoxic T cells, regulatory T cells (Tregs), natural killer (NK) cells and other types of T cells, having a distinct and opposing function than CTLA-4. The ligand ICOSL (B7-H2; CD275) is expressed on antigen-presenting cells (APCs) such as dendritic cells (DCs) and macrophages. ICOS/ICOSL signaling leads to the activation, proliferation and survival of cytotoxic T cells, as well as the survival of memory T cells. ICOS/ICOSL binding generates various activities including T cell activation and effector functions and when sustained also suppressive activities mediated by regulatory T cells. This dual role in both anti-tumor and pro-tumor activities makes targeting the ICOS/ICOSL pathway attractive for enhancement of anti-tumor immune responses and as a potential biomarker for disease treatment and prognostic prediction.



SELECTED REVIEWS: Inducible Co-Stimulator (ICOS) as a potential therapeutic target for anti-cancer therapy: F. Amatore, et al.; Expert Opin. Ther. Targets **22**, 343 (2018) • The rationale behind targeting the ICOS-ICOS ligand costimulatory pathway in cancer immunotherapy: C. Solinas, et al.; ESMO Open **5**, e000544 (2020)

Highly Sensitive ELISA Assay & Validated Proteins/Antibodies

ASSAYS	PID	SIZE	SENSITIVITY	RANGE	SPECIES
ICOSL (human) ELISA Kit	AG-45B-0017	96 wells	55 pg/ml	0.0625 – 4 ng/m	Hu
PROTEINS	PID	SIZE	SOURCE	ENDOTOXIN	SPECIES
ICOSL [B7-H2] (mouse):Fc (mouse) (rec.)	CHI-MF-110B7H2	100 µg	CHO cells	<0.06EU/µg	Ms
ICOSL [B7-H2] (mouse):Fc (mouse) (rec.) (non-lytic)	CHI-MF-120B7H2	100 µg	CHO cells	<0.06EU/µg	Ms
ICOSL [B7-H2] (human) (rec.) (His)	CHI-HF-201B7H2	50 µg	HEK 293 cells	<0.01EU/µg	Hu
ICOSL [B7-H2] (human):Fc (human) (rec.)	CHI-HF-210B7H2	100 µg	CHO cells	<0.06EU/µg	Hu
ICOSL [B7-H2] (human):Fc (human) (rec.) (non-lytic)	CHI-HF-220B7H2	100 µg	CHO cells	<0.06EU/µg	Hu
ICOSL [B7-H2] (human):Fc (mouse) (rec.)	CHI-HF-211B7H2	100 µg	CHO cells	<0.06EU/µg	Hu
ICOSL [B7-H2] (human)-mulg Fusion Protein	ANC-575-020	25 µg	CHO cells	n.d.	Hu
ICOS (mouse):Fc (mouse) (rec.)	CHI-MF-110ICOS	100 µg	CHO cells	<0.06EU/µg	Ms
ICOS (human):Fc (human) (rec.)	CHI-HF-210ICOS	25 µg 100 µg	CHO cells	<0.06EU/µg	Hu
ICOS (human):Fc (human) (rec.) (non-lytic)	CHI-HF-220ICOS	25 µg 100 µg	CHO cells	<0.06EU/µg	Hu
ICOS (human):Fc (mouse) (rec.)	CHI-HF-211ICOS	100 µg	CHO cells	<0.06EU/µg	Hu
ICOS [CD278] (human)-mulg Fusion Protein	ANC-517-020	25 µg	CHO cells	n.d.	Hu
ANTIBODIES	PID	SIZE	ISOTYPE	APPLICATION	SPECIES
anti-ICOSL [B7-H2] (human), mAb (ANC4E3)	ANC-263-020	100 µg	Mouse IgG1κ	ELISA	Hu
anti-ICOS (human), mAb (ANC6C6)	ANC-265-020	100 µg	Mouse IgG1κ	FACS, FUNC	Hu