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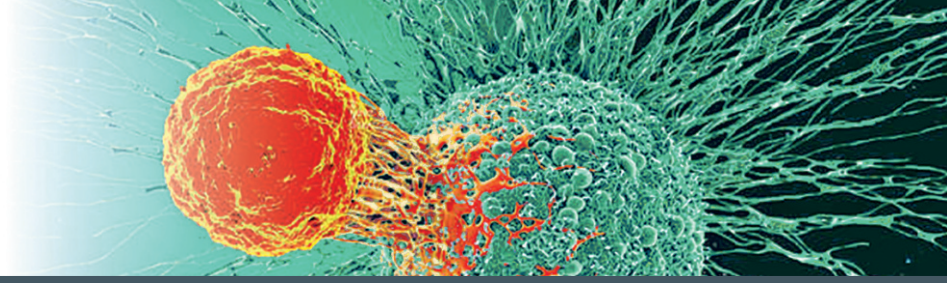

CANCER IMMUNOTHERAPY RESEARCH

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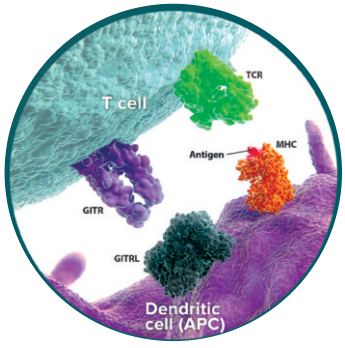
GITR/GITRL Pathway Signaling

Glucocorticoid-induced TNFR-related protein (GITR; CD357; TNFRSF18) is an activating receptor on the surface of T cells and other immune cells, binding to its ligand GITRL (TNFSF18). Once exposure to tumor antigen activates a T cell, the number of GITR receptors on its surface increases. On the activated T cell, GITR acts as a co-stimulatory receptor, meaning that it is a receptor whose signaling enhances cell reproduction and the generation of cancer-killing activity. Activation of GITR signaling can also help to enhance immunity through the activation of cytotoxic T cells and inhibition of Treg activity. The GITR/GITRL pathway can shift the immune balance toward anti-tumor immunity by strengthening effector T cell responses and weakening tumor-protective regulatory networks but also play a dual role in autoimmunity. While its activation can help control tumor growth, excessive stimulation may promote autoreactive T cell activity, aggravating autoimmune inflammation.



SELECTED REVIEWS: New emerging targets in cancer immunotherapy: the role of GITR: G. Buzzatti, et al.; ESMO Open 4, e000738 (2020) • The Role of GITR/GITRL Interaction in Autoimmune Diseases: J. Tian, et al.; Front. Immunol. 11, 588682 (2020)

Related Recombinant Proteins and Antibodies

PROTEINS	PID	SIZE	SOURCE	ENDOTOXIN	SPECIES
GITR (mouse):Fc (human) (rec.)	AG-40B-0002	50 µg | 3 x 50 µg	HEK 293 cells	<0.01EU/µg	Ms
GITR (human):Fc (human) (rec.)	AG-40B-0028	50 µg | 3 x 50 µg	HEK 293 cells	<0.01EU/µg	Hu
GITRL, Soluble (mouse) (rec.)	AG-40A-0008	50 µg	HEK 293 cells	<0.1EU/µg	Ms
GITRL, Soluble (human) (rec.)	CHI-AG-40A-0019	50 µg	HEK 293 cells	<0.06EU/µg	Hu
GITRL, Soluble (human) (rec.) (His)	AG-40A-0024T	10 µg | 50 µg	HEK 293 cells	<0.06EU/µg	Hu
ANTIBODIES	**PID**	**SIZE**	**ISOTYPE**	**APPLICATION**	**SPECIES**
anti-GITR (human), mAb (ANC7D6)	ANC-268-020	100 µg	Mouse IgMκ	FACS	Hu
anti-GITR (human), mAb (ANC5E3)	ANC-368-020	100 µg	Mouse IgG3κ	FACS	Hu
anti-GITR (human), mAb (AIT 158D)	AG-20A-0017	50 µg | 100 µg	Rat IgG2aκ	FACS	Hu
anti-GITR (human), pAb	AG-25A-0017	25 µg | 100 µg	Rat	FACS	Hu
anti-GITRL (human), pAb	AG-25A-0023	25 µg | 100 µg	Rabbit	IHC, WB	Hu
anti-GITR (mouse), mAb (MGIT 02)	AG-20A-0007	100 µg	Rat IgG2aκ	FACS, ELISA	Ms

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