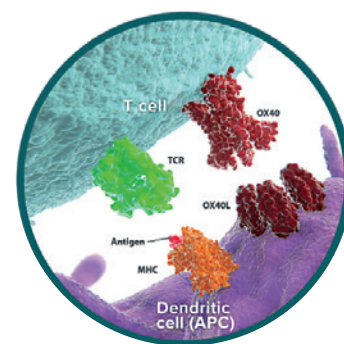


OX40/OX40L Pathway Signaling

OX40 (CD134; TNFRSF4) is an activating receptor, a member of the TNF receptor superfamily, expressed on the surface of activated cytotoxic T cells and regulatory T cells (Tregs). OX40 both activates and amplifies T cell responses. On cytotoxic T cells, OX40 binds to its ligand OX40L (CD252; TNFSF4), resulting in stimulatory signals that promote T cell reproduction, function and survival. OX40/OX40L signaling blocks the ability of Tregs to suppress T cells and reduces Treg generation. By inhibiting the immunosuppressive effect of Tregs and limiting their population, OX40 further amplifies the impact of T cell activation. The dual effects of OX40 help to create a tumor microenvironment that is more favorable to the antitumor immune response. The OX40-OX40L axis is a versatile and promising target across oncology, autoimmunity, and chronic inflammatory disease research.



SELECTED REVIEWS: The OX40/OX40L Axis Regulates T Follicular Helper Cell Differentiation: Implications for Autoimmune Diseases: N. Fu, et al.; Front. Immunol. **12**, 670637 (2021) • OX40/OX40 ligand and its role in precision immune oncology: B. Thapa, et al.; Cancer Metast. Rev. **43**, 1001 (2024) • An OX-Tra'Ordinary Tale: The Role of OX40 and OX40L in Atopic Dermatitis: K. Sadrolashrafi, et al.; Cells **13**, 587 (2024) • OX40-OX40L Axis in Cutaneous T-Cell Lymphomas: Pathogenic, Prognostic, and Potential Therapeutic Perspectives: A. Guglielmo, et al.; Biomolecules **15**, 715 (2025)

Related Recombinant Proteins and Antibodies

PROTEINS	PID	SIZE	SOURCE	ENDOTOXIN	SPECIES
OX40 (mouse):Fc (human) (rec.)	CHI-MF-111CD134	100 µg	HEK 293 cells	<0.005EU/µg	Ms
OX40 (human) (rec.) (His)	CHI-HR-200CD134	25 µg	E. coli	<0.1EU/µg	Hu
OX40 (human):Fc (human) (rec.)	AG-40B-0014	50 µg 3 x 50 µg	HEK 293 cells	<0.01EU/µg	Hu, Ms
OX40 (human):Fc (human) (rec.)	CHI-HF-210CD134	50 µg	CHO cells	<0.06EU/µg	Hu
OX40 (human):Fc (mouse) (rec.)	CHI-HF-211CD134	100 µg	HEK 293 cells	<0.005EU/µg	Hu
OX40 (human)-mulg Fusion Protein	ANC-513-020	25 µg	CHO cells	n.d.	Hu
OX40L (mouse) (multimeric) (rec.)	AG-40B-0029	10 µg	HEK 293 cells	<0.01EU/µg	Hu, Ms
Fc (human):OX40L, Soluble (human) (rec.)	AG-40B-0172	10 µg 3 x 10 µg	HEK 293 cells	<0.01EU/µg	Hu
OX40L (human) (rec.) (His)	CHI-HF-201CD252	50 µg	HEK 293 cells	<0.01EU/µg	Hu, Ms
OX40L (human):Fc (mouse) (rec.)	CHI-HF-211CD252	100 µg	HEK 293 cells	<0.005EU/µg	Hu, Ms
OX40L (human)-muCD8 Fusion Protein	ANC-512-020	25 µg	CHO cells	n.d.	Hu
ANTIBODIES	PID	SIZE	ISOTYPE	APPLICATION	SPECIES
anti-OX40 (human), mAb (BerAct35)	ANC-355-020	100 µg	Mouse IgG1	ELISA, FACS, IHC	Hu
anti-OX40 (human), Rabbit Monoclonal (RM313)	REV-31-1199-00	100 µl	Rabbit IgG	IHC, WB	Hu
anti-OX40L (human), mAb (rec.) (blocking) (R4930)	AG-27B-6001PF	100 µg	Human IgG1κ	FACS, FUNC	Hu
anti-OX40L (human), mAb (ANC10G1)	ANC-400-020	100 µg	Mouse IgG1κ	FACS, FUNC	Hu