

## Product Datasheet

### OX40 Antibody / CD134 / TNFRSF4 (orb607114)

<b>Catalog Number</b>	orb607114
<b>Category</b>	Antibodies
<b>Description</b>	<p>This MAb recognizes a protein of 43kDa, identified as OX40, which is also known as CD134. OX40 is a type I integral membrane glycoprotein and member of the tumor necrosis factor/nerve growth factor receptor (TNFR/NGFR) family. It is expressed on activated T lymphocytes, hematopoietic precursor cells and fibroblasts. It functions as a T cell co-stimulatory receptor when bound by OX40 Ligand / TNFSF4 that is expressed by antigen presenting cells. OX40 thereby plays roles in T-cell activation as well as the regulation of differentiation, proliferation or apoptosis of normal and malignant lymphoid cells. OX40 is upregulated at the sites of inflammation, especially in case of multiple sclerosis and psoriatic lesions.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2c, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Buffer/Preservatives</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	A portion of amino acids 95-205 from the human protein was used as the immunogen for the OX40 antibody.
<b>UniProt ID</b>	<b>P43489</b>
<b>Tested applications</b>	ELISA, FACS, IF, IHC-P

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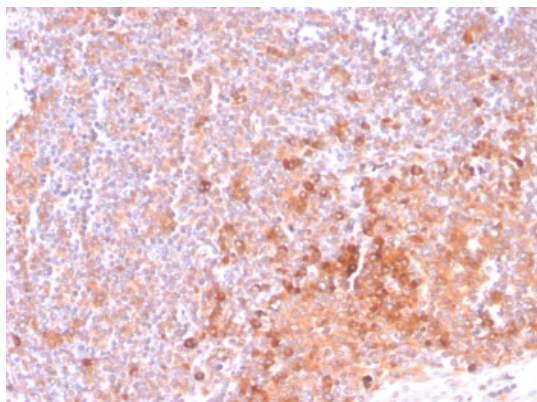
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<b>Dilution range</b>	ELISA (order BSA/sodium azide-free format for coating),Flow cytometry: 1-2ug/10 <sup>6</sup> cells,Immunofluorescence: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
<b>Application notes</b>	Optimal dilution of the OX40 antibody should be determined by the researcher.1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	OX40/3108
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



IHC staining of FFPE human tonsil tissue with OX40 antibody (clone OX40/3108). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.

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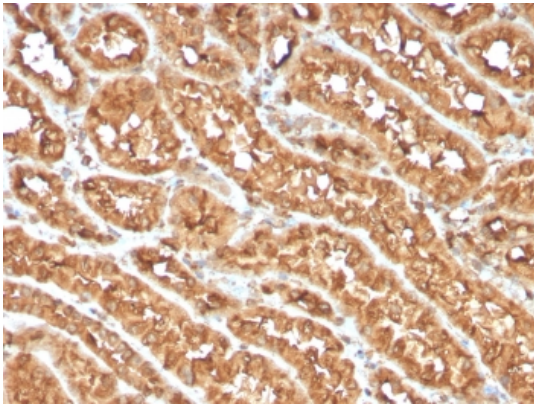
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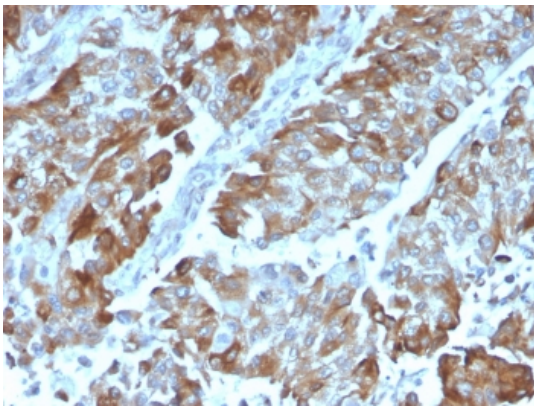
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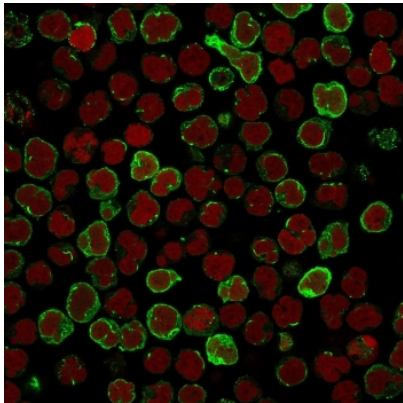
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IHC staining of FFPE human renal cell carcinoma with OX40 antibody (clone OX40/3108). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human renal cell carcinoma with OX40 antibody (clone OX40/3108). HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



Immunofluorescence staining of human MOLT4 cells with OX40 antibody (green, clone OX40/3108) and Reddot nuclear stain (red).

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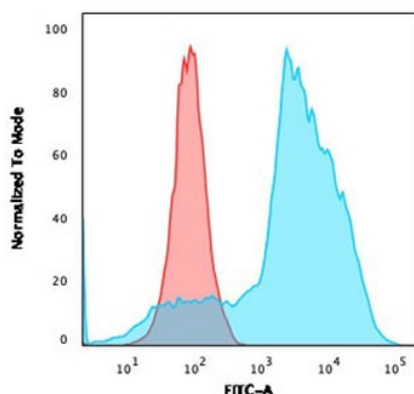
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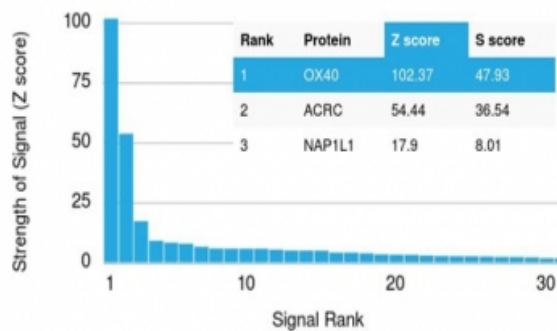
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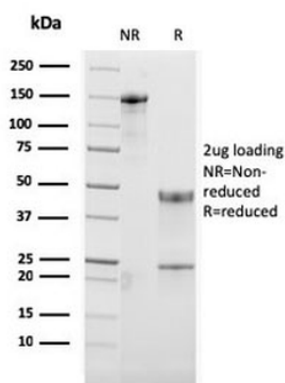


Flow cytometry testing of human MOLT4 cells with OX40 antibody (clone OX40/3108); Red=isotype control, Blue= OX40 antibody.

### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using OX40 antibody (clone OX40/3108). These results demonstrate the foremost specificity of the OX40/3108 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free OX40 antibody (clone OX40/3108) as confirmation of integrity and purity.

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