

## Product Datasheet

### TNF-alpha Antibody (orb749820)

<b>Catalog Number</b>	orb749820
<b>Category</b>	Antibodies
<b>Description</b>	<p>This mAb recognizes human 17-26kDa protein, which is identified as cytokine TNF-alpha (Tumor Necrosis Factor-alpha). TNF-alpha can be expressed as a 17kDa free molecule, or as a 26kDa membrane protein. TNF-alpha is a protein secreted by lipopolysaccharide-stimulated macrophages, and causes tumor necrosis when injected into tumor bearing mice. TNF alpha causes cytolysis of certain transformed cells, being synergistic with interferon gamma in its cytotoxicity. Although it has little effect on many cultured normal human cells, TNF alpha appears to be directly toxic to vascular endothelial cells. Other actions of TNF alpha include stimulating growth of human fibroblasts and other cell lines, activating polymorphonuclear neutrophils and osteoclasts, and induction of interleukin 1, prostaglandin E2 and collagenase production. TNF alpha is currently being evaluated in treatment of certain cancers and AIDS Related Complex.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgM, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human, Rat
<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>	PEG precipitation
<b>Immunogen</b>	Recombinant full-length human protein was used as the immunogen for the TNF-alpha antibody.

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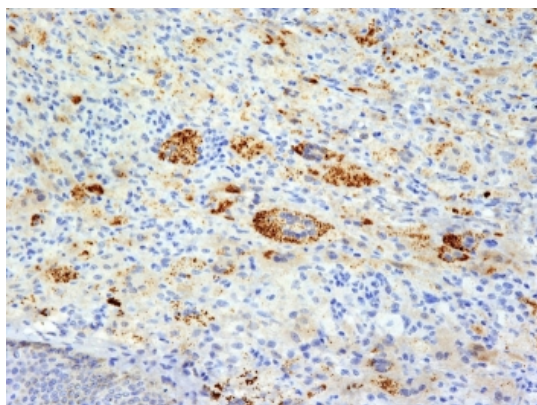
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<b>UniProt ID</b>	<b>P01375</b>
<b>Tested applications</b>	FACS, IF, IHC-P
<b>Dilution range</b>	Flow cytometry: 1-2ug/10 <sup>6</sup> cells, Immunofluorescence: 1-2ug/ml, Immunohistochemistry (FFPE): 2-4ug/ml for 30 min at RT
<b>Application notes</b>	Optimal dilution of the TNF-alpha antibody should be determined by the researcher.1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.2. 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>	TNFA/1172
<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: Formalin-fixed, paraffin-embedded human Erdheim Chester disease (also known as polyostotic lerosing histiocytosis) stained with TNF alpha antibody (clone TNFA/1172).

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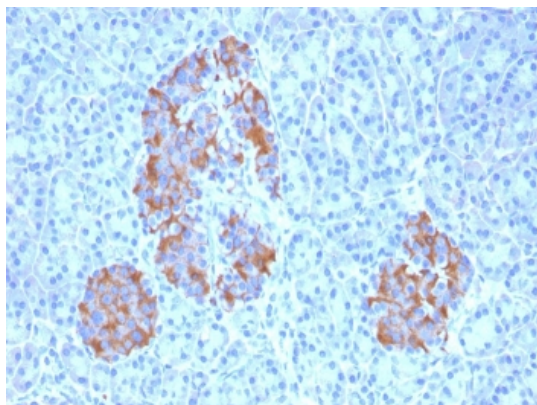
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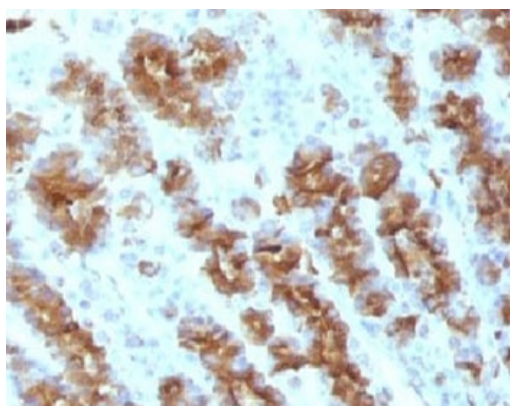
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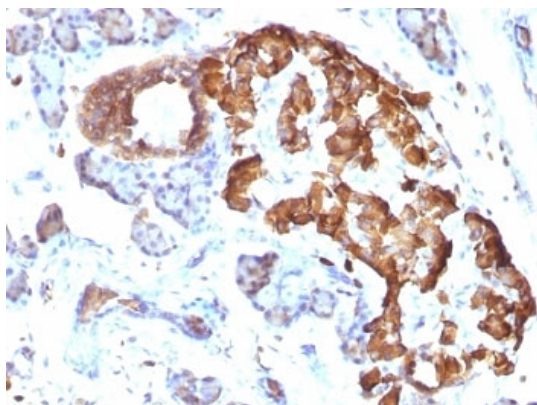
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IHC staining of FFPE human pancreas with TNF alpha antibody (clone TNFA/1172).



IHC: Formalin-fixed, paraffin-embedded rat stomach stained with TNF alpha antibody (clone TNFA/1172).



IHC: Formalin-fixed, paraffin-embedded rat pancreas stained with TNF alpha antibody (clone TNFA/1172).

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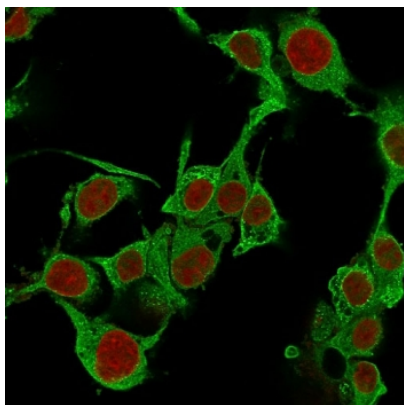
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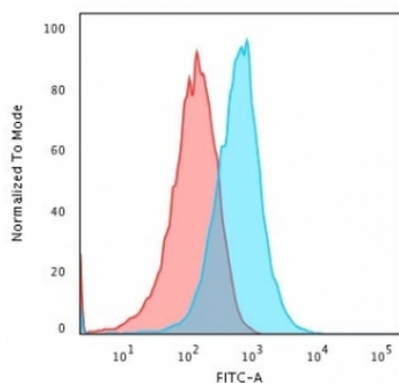
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Immunofluorescent staining of PFA-fixed human HepG2 cells with TNF-alpha antibody (green, clone TNFA/1172) and Reddot nuclear stain (red).



Flow cytometry testing of PFA-fixed human HepG2 cells with TNF-alpha antibody (clone TNFA/1172); Red = isotype control, Blue = TNF-alpha antibody.

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