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Product datasheet for CL044F

Tnfrsf1a Rat Monoclonal Antibody [Clone ID: HM104]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HM104
Applications:	ELISA, FC, IHC
Recommended Dilution:	Immunohistochenistry on Frozen Sections: The typical starting working dilution is 1/50. Flow Cytometry: The typical starting working dilution is 1/50. Immunoassays. Immunoprecipitation.
Reactivity:	Mouse
Host:	Rat
lsotype:	lgG2a
Clonality:	Monoclonal
Specificity:	The monoclonal antibody <i>HM104</i> recognizes the extracellular part of the Tumor Necrosis Factor Receptor type I (TNF-RI) of the membrane-bound as well as the soluble receptor.recognizes the extracellular part of the Tumor Necrosis Factor Receptor type I (TNF- RI) of the membrane-bound as well as the soluble receptor. The reactivity of the antibody with soluble TNF-Receptor is inhibited by high concentrations of both Mouse and Human TNF-alpha
Formulation:	PBS Label: FITC State: Liquid 0.2 μm filtered lg fraction Stabilizer: 1% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	FITC
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch
Gene Name:	tumor necrosis factor receptor superfamily, member 1a



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Database Link:	<u>Entrez Gene 21937 Mouse</u> <u>P25118</u>
Background:	TNF-RI (~55-60 kDa) is present on most cell types and is considered to play a prominent role in cell stimulation by TNF-alpha. TNF-alpha activates inflammatory responses, induces apoptosis, regulates cellular proliferation, and may even promote cancer progression. The effects of TNF-alpha are mediated by TNF-RI and TNF-RII, which have both distinct and overlapping downstream signaling cascades. Induction of cytotoxicity and other functions are mediated largely via TNF-RI. TNF-RI is equally well activated by both the 17 kDa soluble and 26 kDa membrane-bound form, whereas TNF-RII is efficiently activated only by the membrane bound form of TNF-alpha. TNF-RI signaling is initiated when trimeric TNF-alpha binds TNF-RI receptors. Subsequent TNF-RI trimerization promotes the recruitment of a proximal signaling complex composed of TNF Receptor Associated protein with a Death Domain (TRADD), Receptor Interacting Protein (RIP), cellular Inhibitor of Apoptosis Protein 1 (cIAP1), TNF Receptor Associated Factor 2 (TRAF2), and likely TRAF5. Studies with TNF-RI-deficient mice indicate that TNF-RI mediates most of the proliferation, pro-inflammatory, and apoptosis- activating pathways.
Synonyms:	Tumor necrosis factor receptor 1, TNF-R1, TNF-RI, TNFR-I, p55, p60, Tnfrsf1a

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