

## **Product datasheet for CL044PS**

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# Tnfrsf1a Rat Monoclonal Antibody [Clone ID: HM104]

**Product data:** 

**Product Type:** Primary Antibodies

Clone Name: HM104

**Applications:** ELISA, FC, IHC, IP

Recommended Dilution: Flow Cytometry (1/50).

Immunoassays.

Immunoprecipitation.

Immunohistochemistry on Frozen Sections (1/50).

Reactivity: Mouse Host: Rat

**Isotype:** IgG2a

Clonality: Monoclonal

**Specificity:** The monoclonal antibody recognizes the extracellular part of the Tumor Necrosis Factor

Receptor type I (TNF-RI) of the membrane-bound as well as the soluble receptor.

Formulation: PBS

State: Purified

State: Liquid 0.2 µm filtered Ig fraction

Stabilizer: 0.1% BSA

Preservative: 0.02% Sodium Azide

**Concentration:** lot specific

**Purification:** Protein G Chromatography

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C.

DO NOT FREEZE!

**Stability:** Shelf life: one year from despatch.

**Gene Name:** tumor necrosis factor receptor superfamily, member 1a

**Database Link:** Entrez Gene 21937 Mouse

P25118





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#### 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-R1, TNFR-I, p55, p60, Tnfrsf1a