

Mouse CD120a (TNFR1) Antibody

Purified in vivo PLATINUM™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: T950

Clone: 55R-170

RRID: AB_2832124

Isotype: Armenian Hamster IgG

Storage: Sterile 2 to 8°C

Product Description

Specificity:

Clone 55R-170 recognizes mouse CD120a.

Antigen Distribution:

CD120a is constitutively expressed in most tissues.

Background:

Tumor Necrosis Factor Receptor Type I (TNFRI) is a 55kD Type I transmembrane protein. TNFRI is expressed independently of TNFRII at low levels on a wide variety of cell types. TNFRI binds TNF- α and TNF- β (also known as LT- α). The subsequent signaling is known to be important for inducing cytolytic activity, antiviral activity, expression of manganous superoxide dismutase and intercellular adhesion molecule (ICAM), IL-6 mRNA accumulation and NF- κ B induction. TNFRI carries an approximately 80 amino acid death domain near its carboxy terminus capable of transmitting an apoptotic signal through its interaction with TRADD (TNF Receptor I associated death domain protein). Binding of 55R-170 antibody to TNFRI has been shown to block in vitro and in vivo receptor signaling initiated by ligand binding.

Known Reactivity Species:

Mouse

Format:

Purified in vivo PLATINUM™ Functional Grade

Immunogen:

Purified Recombinant Mouse TNFR1 (>98%)

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥98% monomer by analytical SEC, >95% by SDS Page

Endotoxin

<0.5 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at $\leq -70^{\circ}\text{C}$.

Avoid Repeated Freeze Thaw Cycles.**Product Preparation**

Functional grade preclinical antibodies are manufactured in an animal free facility using in vitro cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's Purified Functional PLATINUM™ antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

Applications**Applications and Recommended Usage (Quality Tested By Leinco):**

ELISA This antibody is useful as the capture antibody in a sandwich ELISA. The suggested coating concentration is 5 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$) $\mu\text{g/ml}$.

WB To detect Human CASP8 by Western blot analysis, this antibody can be used at a concentration of 1.0-2.0 $\mu\text{g/ml}$ (1:100 Dilution). When used in conjunction with compatible second step reagents such as PN:A238 and a chromogenic substrate such as PN:T343, the detection limit for Human CASP8 is 1.0 ng/lane under either reducing or non-reducing conditions.

FC**Other Applications Reported in Literature:**

IP 2 $\mu\text{g/mg}$ of protein lysate

B

Country of Origin

USA

References

- 1) Dana, R. et al. (2000) Arch Ophthalmol. 118: 1666
- 2) Donner, DB. et al. (2008) J Immunol. 181: 1288
- 3) Pasparakis, M. et al. (2008) Nat Immunol. 9: 1015