

Rabbit anti-Human TNFR2/CD120b/TNFRSF1B Monoclonal Antibody | anti-TNFRSF1B antibody

TNFR2/CD120b/TNFRSF1B Neutralizing Antibody

CATALOG # AAA27733	HOST Rabbit	REACTIVITY Human	APPLICATIONS Neutralization Assay
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PRODUCT SYNONYMS

TNFR2/CD120b/TNFRSF1B; Monoclonal Antibody; TNFR2/CD120b/TNFRSF1B Neutralizing Antibody; tumor necrosis factor receptor superfamily; member 1b; Anti-CD120b Antibody; Anti-p75 Antibody; Anti-p75TNFR Antibody; Anti-TBPII Antibody; Anti-TNF-R-II Antibody; Anti-TNF-R75 Antibody; Anti-TNFR Antibody; Anti-TNFR1B Antibody; Anti-TNFR2 Antibody; Anti-TNFR80 Antibody; anti-TNFRSF1B antibody

PRODUCT SPECIFICATIONS

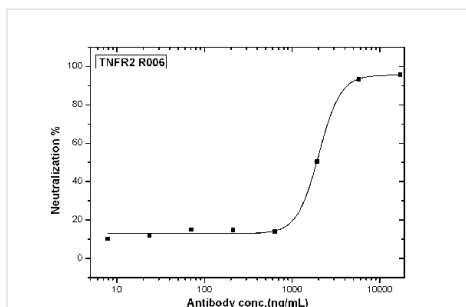
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	R006
Specificity	Human TNFRSF1B/TNFR2/CD120b. No cross-reactivity in ELISA with Mouse TNFR2
Purity/Purification	>95% SDS-PAGE
Form/Format	Liquid; 0.2um filtered solution in Histidine and Arginine buffer containing 120mM NaCl, 0.02% Tween 80, pH6.0
Concentration	Antibody concentration : >1mg/mL Method by UV (varies by lot)
Applicable Applications for anti-TNFRSF1B antibody	Blocking, Neutralization
Application Notes	Block: In a functional ELISA which immobilized recombinant Human TNFR2 at 1ug/mL (100uL/well) in the plate, the Rabbit anti-Human TNFR2 Monoclonal Antibody can block the binding of 2ug/mL of biotinylated Human TNFalpha to Human TNFR2, the EC50 is 2.07ug/mL. Neutralization: The neutralization activity of TNFR2/TNFRSF1B Neutralizing Antibody is Measured by its ability to neutralize TNFR2/TNFRSF1B-mediated inhibition of cytotoxicity in the L-929 mouse fibroblast cell line. The Neutralization titer (IC50) is typically 1-3ug/mL in the presence of 1ug/mL Recombinant Human TNFR2/TNFRSF1B, 0.25ng/mL Recombinant Human TNFa, and 1ug/mL actinomycin D.
Immunogen	Recombinant Human TNFR2 protein
Endotoxin	Method: LAL gel clotting Result: <3EU/mg
Aggregation	Method: SEC-HPLC Result: <5% aggregation
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human TNFR2 / CD120b / TNFRSF1B (rh TNFR2 / CD120b / TNFRSF1B; NP_001057.1; Met1-Asp257) and was produced using recombinant antibody technology.

Preparation and Storage

This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free.

Sodium azide is recommended to avoid contamination (final concentration : 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data

TNFR2/TNFRSF1B-mediated inhibition of cytotoxicity was Neutralized by Human TNFR2 Antibody. Recombinant Human TNFR2/TNFRSF1B inhibits Recombinant Human TNFα induced cytotoxicity in the L-929 mouse fibroblast cell line. Inhibition of Recombinant Human TNFα (0.25 ng/mL) activity elicited by Recombinant Human TNFR2/TNFRSF1B (1 ug/mL) is neutralized by increasing concentrations of Human TNFR2/TNFRSF1B Monoclonal Antibody. The IC50 is typically 1-3 ug/mL in the presence of the metabolic inhibitor actinomycin D (1 ug/mL).

ADDITIONAL INFORMATION

Related Product Information for anti-TNFRSF1B antibody

Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B), also known as Tumor necrosis factor receptor 2 (TNFR2) or CD120b antigen, is a member of the tumor necrosis factor receptor superfamily. TNFR2/CD120b/TNFRSF1B is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways. TNFR2/CD120b/TNFRSF1B is not a major contributing factor to the genetic risk of type 2 diabetes, its associated peripheral neuropathy and hypertension and related metabolic traits in North Indians. Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B) has been reported to be associated with SLE risk in Japanese populations. TNFR2/CD120b/TNFRSF1B serves as a receptor with high affinity for TNFSF2 and approximately 5-fold lower affinity for homotrimeric TNFSF1. This receptor mediates most of the metabolic effects of TNF-α. Isoform 2 blocks TNF-α-induced apoptosis, which suggests that it regulates TNF-α function by antagonizing its biological activity.

Product Categories/Family for anti-TNFRSF1B antibody

[Neuroinflammation](#)

References

Komata T, et al. (1999) Association of tumor necrosis factor receptor 2 (TNFR2) polymorphism with susceptibility to systemic lupus erythematosus. *Tissue Antigens*. 53(6): 527-33.

Tsuchiya N, et al. (2001) Analysis of the association of HLA-DRB1, TNFα promoter and TNFR2 (TNFRSF1B) polymorphisms with SLE using transmission disequilibrium test. *Genes Immun*. 2(6): 317-22.

Guo G, et al. (1999) Role of TNFR1 and TNFR2 receptors in tubulointerstitial fibrosis of obstructive nephropathy. *Am J Physiol*. 277(5): 766-72.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507577
NCBI GeneID	7133
NCBI Accession #	NP_001057.1
NCBI GenBank Nucleotide #	NM_001066.2
UniProt Accession #	P20333 ; Q16042 ; Q6YI29 ; Q9UIH1 ; B1AJZ3

NCBI Official Full Name	tumor necrosis factor receptor superfamily member 1B
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 1B
NCBI Official Symbol	TNFRSF1B
NCBI Official Synonym Symbols	p75; TBPII; TNFBR; TNFR2; CD120b; TNFR1B; TNFR80; TNF-R75; p75TNFR; TNF-R-II
NCBI Protein Information	tumor necrosis factor receptor superfamily member 1B; TNF-R2; TNF-RII; p75 TNF receptor; p80 TNF-alpha receptor; soluble TNFR1B variant 1; tumor necrosis factor receptor 2; tumor necrosis factor beta receptor; tumor necrosis factor receptor type II; tumor
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 1B
UniProt Gene Name	TNFRSF1B
UniProt Synonym Gene Names	TNFBR; TNFR2; TNF-R2; TNF-RII; TNFR-II
UniProt Entry Name	TNR1B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tnfr2-cd120b-tnfrsf1b-antibody-clone-r006-elisa/27733>