Anti-Human TNF receptor type II

20150223ML

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**102-P96**
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant hsTNF-receptor. Anti-Human sTNF-receptor specific antibody was purified by affinity chromatography employing immobilized hsTNF-receptor matrix.

Target Background

Synonyms (Target):	TNFRSF1B;p75; TBPII; TNFBR; TNFR2; CD120b; TNFR1B; TNFR80; TNF-R75; p75TNFR; TNF-R-II

Tumor Necrosis Factor Receptor-I (TNF RI, also known as p55/p60) and TNF RII (also known as p75/p80) are both high affinity receptors for TNF-alpha and -beta, potent mediators of multiple aspects of inflammatory immune responses. Both RI and RII are prototypic members of the TNF receptor superfamily and have been designated TNFRSF1A and TNFRSF1B, respectively. Whereas all cell types are thought to express TNF RI, TNF RII expression is limited primarily to hematopoietic cells and cells of the immune system. Most of the biological functions of TNF are mediated via TNF RI. Soluble forms of both TNF RI and TNF RII, generated as a result of proteolytic cleavage of the extracellular domains, have been detected in vivo in various biological fluids. The soluble TNF receptors can bind TNF with high affinity and functions as TNF antagonists.

Database References Target

Protein RefSeq:	NP_001057.1
Uniprot ID:	P20333
mRNA RefSeq:	NM_001066.2

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	recombinant human soluble TNF-receptor type II
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.

AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [$\mathbf{ND_{50}}$] of the biological activity of hsTNF-receptor(0.3 µg/ml), a concentration of 0.9-1.1 µg/ml of this antibody is required.

ELISA:
Indirect: To detect hsTNF-receptor by indirect ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hsTNF-receptor. ***Sandwich***: To detect hsTNF-receptor by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.5 - 2.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with PeproTech's Biotinylated Anti-Human sTNF-receptor (500-P143Bt) as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant hsTNF-receptor.

Western Blot: To detect hsTNF-receptor by Western Blot analysis this antibody can be used at a concentration of 0.1- 0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant hsTNF-receptor is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!