

For Research Use Only

TNFR1/CD120a Recombinant antibody, PBS Only

Catalog Number: 84243-5-PBS



Basic Information

Catalog Number:

84243-5-PBS

Size:

100ug, Concentration: 1 mg/ml by
Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC010140

GeneID (NCBI):

7132

UNIPROT ID:

P19438

Full Name:

tumor necrosis factor receptor
superfamily, member 1A

Calculated MW:

455 aa, 50 kDa

Observed MW:

55 kDa

Purification Method:

Protein A purification

CloneNo.:

241336B4

Applications

Tested Applications:

WB, IHC, IF/ICC, Indirect ELISA

Species Specificity:

human, mouse

Background Information

Tumor necrosis factor (TNF) is a multifunctional cytokine that plays a key role in regulating inflammation, immune functions, host defense, and apoptosis (PMID: 16407280). TNF exists in soluble and membrane-bound forms. TNF signals through two distinct cell surface receptors, TNFR1 (TNFRSF1A, CD120a) and TNFR2 (TNFRSF1B, CD120b). Whereas TNFR1 is widely expressed, expression of TNFR2 is limited to cells of the immune system, endothelial cells, and nerve cells (PMID: 22053109). TNFR1, which contains a death domain (DD) within its intracytoplasmic region, is thought to be the key receptor for TNF signaling (PMID: 16407280). This receptor can activate NF-kappaB, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

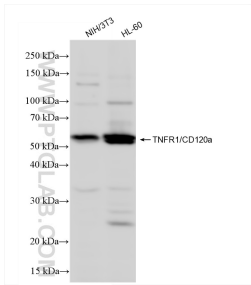
For technical support and original validation data for this product please contact:

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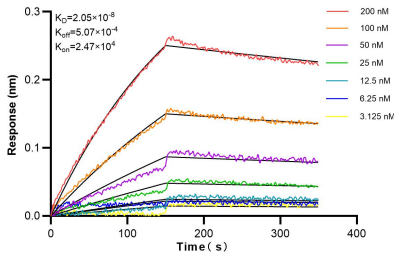
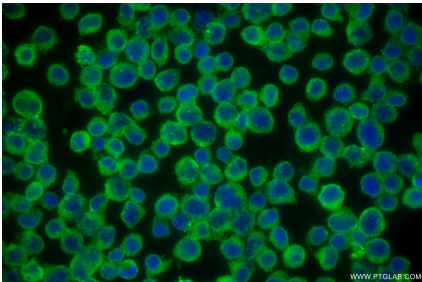
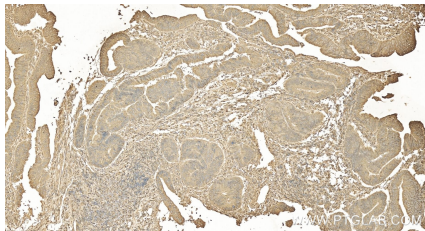
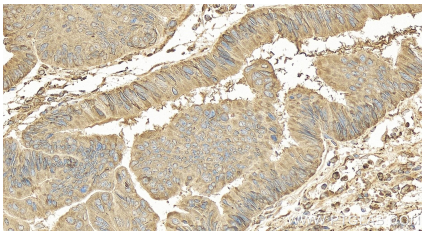
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84243-5-RR (TNFR1/CD120a antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84243-5-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using TNFR1/CD120a antibody (84243-5-RR, Clone: 241336B4) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84243-5-PBS in a different storage buffer formulation.

Biolayer interferometry (BLI) kinetic assays of 84243-5-RR against Human TNFR1/CD120a were performed. The affinity constant is 20.5 nM.