For Research Use Only

TNFR1/CD120a Recombinant antibody

Catalog Number:84243-5-RR

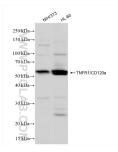


Basic Information	Catalog Number: 84243-5-RR	GenBank Accession Number: BC010140	Purification Method: Protein A purfication	
	Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenelD (NCBI): 7132	CloneNo.: 241336B4	
		UNIPROT ID: P19438	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000	
		Full Name: tumor necrosis factor receptor superfamily, member 1A		
		Calculated MW: 455 aa, 50 kDa		
		Observed MW: 55 kDa		
Applications	Tested Applications: WB, IHC, ELISA	Positive C	ve Controls:	
	Species Specificity: human, mouse	WB : NIH/3T3 cells, HL-60 cells IHC : human colon cancer tissue,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
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.			
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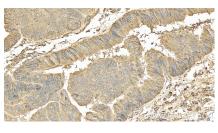
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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Selected Validation Data



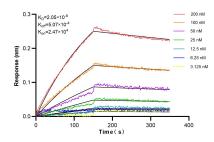
Various lysates were subjected to SDS PAGE followed by western blot with 84243-5-RR (TNFR1/CD120a antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 84243-5-RR (TNFR1/CD120a antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 84243-5-RR (TNFR1/CD120a antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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