

For Research Use Only

GBP1 Recombinant antibody

Catalog Number: 83751-6-RR



Basic Information

Catalog Number: 83751-6-RR	GenBank Accession Number: BC002666	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2633	CloneNo.: 240634G8
Source: Rabbit	UNIPROT ID: P32455	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: GTP binding protein 1	
Immunogen Catalog Number: AG7562	Calculated MW: 68 kDa	
	Observed MW: 67 kDa	

Applications

Tested Applications: WB, FC (Intra), ELISA	Positive Controls: WB : A2780 cells, HUVEC cells
Species Specificity: human	

Background Information

Guanylate binding protein 1 (GBP1) belongs to the dynamin superfamily of large GTPases. The expression of GBP1 is induced by interferon and GBP1 is characterized by its ability to specifically bind guanine nucleotides such as GMP, GDP, and GTP and its ability to hydrolyze GTP to GDP and GMP. GBP1 is induced in response to type I and type II interferons and as such plays a role in protective immunity against a spectrum of intracellular pathogens ranging from viruses to bacteria to protozoa, such as negative-strand RNA Rhabdovirus, vesicular stomatitis virus, and the positive-strand RNA Picornavirus, encephalomyocarditis virus in cultured cells, the inhibition of Chlamydia trachomatis, Toxoplasma gondii, and Salmonella enterica.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

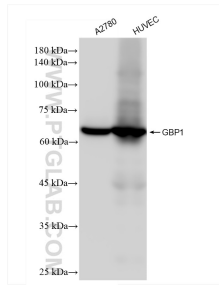
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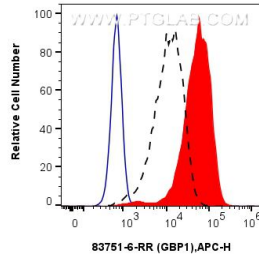
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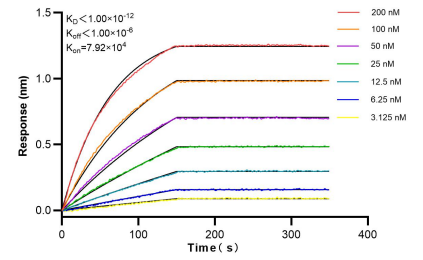
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83751-6-RR (GBP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 HeLa cells untreated (dashed lines) or treated with IFN gamma (red) were intracellularly stained with 0.25 ug GBP1 Recombinant antibody (83751-6-RR, Clone: 240634G8) and APC-Conjugated Goat Anti-Rabbit IgG(H+L), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83751-6-RR against Human GBP1 were performed. The affinity constant is below 1 pM.