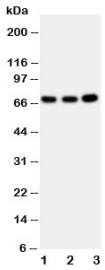
GBP1 Antibody (R30626)

Catalog No.	Formulation	Size
R30626	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P32455
Applications	Western blot: 0.5-1ug/ml
Limitations	This GBP1 antibody is available for research use only.



Western blot testing of GBP1 antibody and Lane 1: U87; 2: HeLa; 3: MCF-7 cell lysate

Description

Interferons induce a large number of genes in their target cells, including those coding for guanylate-binding proteins (GBPs). GBPs, such as GBP1, are characterized by their ability to specifically bind guanine nucleotides (GMP, GDP, and GTP) and are distinguished from the GTP-binding proteins by the presence of two binding motifs rather than three. The 593-amino acid GBP1 protein shares 77% and 88% identity with GBP2 and GBP3, respectively. All GBPs have a conserved N-terminal globular GTP-binding domain containing two consensus sequences and a third T(L/V)RD sequence not found in other GTPases. The GBP1 gene localizes to the GBP gene cluster on chromosome 1p22.2. It is located telomeric to GBP2 and centromeric to GBP3. High expression of GBP1, GBP2, and GBP3 are in endothelial cells after

stimulation with IFNG, TNF, or IL1B.

For studies requiring analysis of interferon-responsive innate immune signaling and inflammatory host defense pathways, see our GBP1 Antibody / Interferon-Induced Immune Response Marker.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the GBP1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 566-589 (QKESRIMKNEIQDLQTKMRRRKAC-human) were used as the immunogen for this GBP1 antibody.

Storage

After reconstitution, the GBP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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