

Rabbit anti-Human GBP1 Polyclonal Antibody | anti-GBP1 antibody

GBP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324283	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

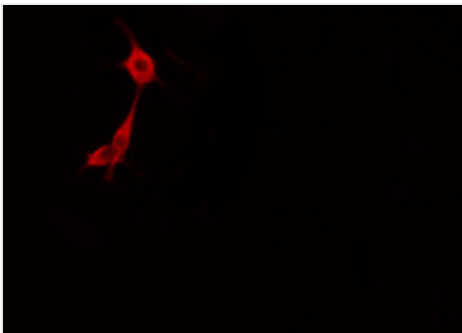
PRODUCT SYNONYMS

GBP1; Polyclonal Antibody; GBP1 Antibody; GBP 1; GBP-1; GBP1_HUMAN; GTP binding protein 1; GTP-binding protein 1; Guanine nucleotide binding protein 1; Guanine nucleotide-binding protein 1; Guanylate binding protein 1; Guanylate binding protein 1 interferon inducible 67kDa; Guanylate binding protein 1 interferon inducible; HuGBP 1; HuGBP-1; HuGBP1; Interferon induced guanylate binding protein 1; Interferon-induced guanylate-binding protein 1; OTTHUMP00000012352; anti-GBP1 antibody

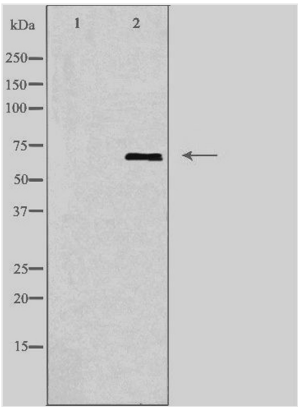
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	GBP1 antibody detects endogenous levels of total GBP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	592
Applicable Applications for anti-GBP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cell Membrane
Tissue Specificity	By IFNG during macrophage activation, and by TNF and IL1B.
Predicted Cross Reactivity	Horse, Rabbit
Similarity	Horse (83%), Rabbit (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA324283 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HUVEC cells, using GBP1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GBP1 antibody	Function: Hydrolyzes GTP to GMP in 2 consecutive cleavage reactions. Exhibits antiviral activity against influenza virus. Promote oxidative killing and deliver antimicrobial peptides to autophagolysosomes, providing broad host protection against different pathogen classes. Subunit Structure: Homodimer; homodimerization occurs upon GTP-binding and is required for the second hydrolysis step from GDP to GMP. Heterodimer with other family members, including GBP2, GBP3, GBP4 and GBP5. Dimerization regulates subcellular location to membranous structures. Post-translational Modifications: Isoprenylation is required for proper subcellular location. Similarity: Belongs to the TRAFAC class dynamin-like GTPase superfamily. GB1/RHD3-type GTPase family. GB1 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	166706903
NCBI GeneID	2633
NCBI Accession #	NP_002044.2
NCBI GenBank Nucleotide #	NM_002053.2
UniProt Accession #	P32455; Q5T8M1; D3DT26
Molecular Weight	Observed: 68 kD Predicted: 68 kDa
NCBI Official Full Name	guanylate-binding protein 1
NCBI Official Synonym Full Names	guanylate binding protein 1
NCBI Official Symbol	GBP1
NCBI Protein Information	guanylate-binding protein 1
UniProt Protein Name	Guanylate-binding protein 1
UniProt Gene Name	GBP1
UniProt Synonym Gene Names	GBP-1; HuGBP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.