

GBP3 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51224**Specification**

GBP3 Antibody - Product Information

Application	WB
Primary Accession	Q9H0R5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68 KDa
Antigen Region	471 - 530

GBP3 Antibody - Additional Information**Gene ID** 2635**Other Names**

Guanylate-binding protein 3, GTP-binding protein 3, GBP-3, Guanine nucleotide-binding protein 3, GBP3

Target/Specificity

KLH conjugated synthetic peptide derived from human GBP3

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C.Stable for 12 months from date of receipt

GBP3 Antibody - Protein Information**Name** GBP3**Function**

Interferon (IFN)-inducible GTPase that plays important roles in innate immunity against a diverse range of bacterial, viral and protozoan pathogens (PubMed:22106366). Hydrolyzes GTP very efficiently; GDP rather than GMP is the major reaction product (By similarity). Following infection, recruited to the pathogen-containing vacuoles or vacuole-escaped bacteria and acts as a positive regulator of inflammasome assembly by promoting the release of inflammasome ligands from bacteria (By similarity). Acts by promoting lysis of pathogen- containing vacuoles, releasing pathogens into the cytosol (By similarity). Following pathogen release in the cytosol, promotes recruitment of proteins that mediate bacterial cytolysis: this liberates ligands that are detected by

inflammasomes, such as lipopolysaccharide (LPS) that activates the non-canonical CASP4/CASP11 inflammasome or double-stranded DNA (dsDNA) that activates the AIM2 inflammasome (By similarity). Exhibits antiviral activity against influenza virus (PubMed:22106366).

Cellular Location

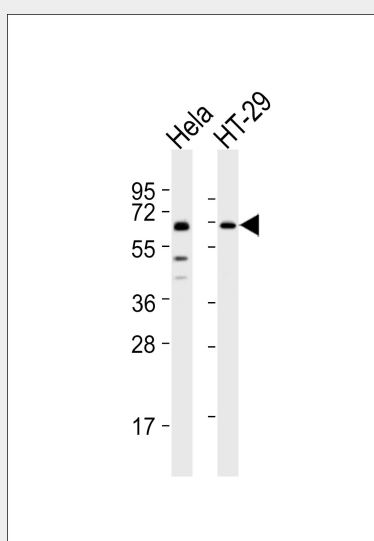
Cytoplasm. Cytoplasm, perinuclear region. Golgi apparatus membrane. Note=Heterodimers with GBP1, GBP2 and GBP5 localize in the compartment of the prenylated GBPs: with GBP1 in a vesicle-like compartment, with GBP2, around the nucleus and with GBP5, at the Golgi apparatus

GBP3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GBP3 Antibody - Images



All lanes : Anti-GBP3 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: HT-29 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 68 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

GBP3 Antibody - Background

Exhibits antiviral activity against influenza virus.

GBP3 Antibody - References

Nordmann A.,et al.FASEB J. 26:1290-1300(2012).

Wiemann S.,et al.Genome Res. 11:422-435(2001).

Gregory S.G.,et al.Nature 441:315-321(2006).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Tripal P.,et al.J. Interferon Cytokine Res. 27:44-52(2007).