

GBP3 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51224

Product Information

Application	WB
Primary Accession	Q9H0R5
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68114

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

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

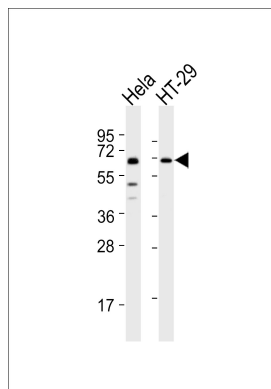
Background

Exhibits antiviral activity against influenza virus.

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).

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.