

GBP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18451b**Specification**

GBP3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9H0R5](#)**GBP3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 2635**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GBP3 Antibody (C-term) Blocking Peptide - 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 (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GBP3 Antibody (C-term) Blocking Peptide - Images

GBP3 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the guanylate-bindingprotein (GBP) family. GBPs specifically bind guanine nucleotides(GMP, GDP, and GTP) and contain two of the three consensus motifsfound in typical GTP-binding proteins. The encoded proteininteracts with a member of the germinal center kinase family.

GBP3 Antibody (C-term) Blocking Peptide - References

Davila, S., et al. Genes Immun. 11(3):232-238(2010)Luan, Z., et al. FEBS Lett. 530 (1-3), 233-238 (2002) :Strehlow, I., et al. Gene 144(2):295-299(1994)