

Datasheet for ABIN7566425

anti-GBP1 antibody



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Overview

Quantity:	50 µg
Target:	GBP1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GBP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	anti-GBP1 (human), pAb (IN111)
Immunogen:	Recombinant human GBP1 protein (aa 200-592).
Characteristics:	<p>Polyclonal antibody. Recognizes endogenous human GBP1. Application: WB. Source: Rabbit.</p> <p>Liquid. In PBS containing 0.05 % sodium azide. Guanylate-binding proteins (GBPs) are a family of antimicrobial proteins that are expressed by host cells in response to pathogens. Expression of GBPs is induced by both type I IFNs and IFN-gamma. During infection with pathogen (S. Typhimurium or Salmonella), GBP1 binds first to surface of the bacteria, leading to the recruitment of GBP2, GBP3 and GBP4. GBP1 binds to the component LPS (Lipopolysaccharide) of the bacteria as a first step bringing caspase-4 to the surface of bacteria, leading to caspase-1 activation, Gasdermin D cleavage and finally pyroptotic cell death. GBP1 is cleaved and inactivated by Caspase-1. GBP1 also promotes Toxoplasma DNA detection by AIM2-ASC-Caspase-8 leading to apoptosis. GBP1 acts as a gatekeeper of cell death pathways, which respond specifically to infecting microbes.</p>

Product Details

Guanylate-binding proteins (GBPs) are a family of antimicrobial proteins that are expressed by host cells in response to pathogens. Expression of GBPs is induced by both type I IFNs and IFN- γ . During infection with pathogen (*S. Typhimurium* or *Salmonella*), GBP1 binds first to surface of the bacteria, leading to the recruitment of GBP2, GBP3 and GBP4. GBP1 binds to the component LPS (Lipopolysaccharide) of the bacteria as a first step bringing caspase-4 to the surface of bacteria, leading to caspase-1 activation, Gasdermin D cleavage and finally pyroptotic cell death. GBP1 is cleaved and inactivated by Caspase-1. GBP1 also promotes Toxoplasma DNA detection by AIM2-ASC-Caspase-8 leading to apoptosis. GBP1 acts as a gatekeeper of cell death pathways, which respond specifically to infecting microbes.

Purification:	Puified
Purity:	>95 % (SDS-PAGE)

Target Details

Target:	GBP1
Alternative Name:	GBP1 (GBP1 Products)
UniProt:	P32455
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	In PBS containing 0.05 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	After opening, prepare aliquots and store at -20 °C.Avoid freeze/thaw cycles.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	+4°C Stable for at least 1 year after receipt when stored at -20°C.