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[Marker Primary Antibody]

Rabbit Anti-GBP1/FITC Conjugated antibody

Catalog Number: SL13302R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-GBP1/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human GBP1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC/IF=1:50-200 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Subcellular Location:	The cell membrane
Background:	background: Guanylate-binding proteins, GBP1 and GBP2 are GTP-binding proteins with a high-turnover GTPase activity and an antiviral effect (1-4). GBP1 mediates an antiviral effect against vesicular stomatitis virus and encephalomyocarditis virus and plays a role in the IFN-mediated antiviral response against these viruses (4). GBP1 and GBP2 belong to a group of large GTP-binding proteins with a high concentration-dependent GTPase activity that have the common ability to undergo oligomerization (1). GBP1 and GBP2 are bone marrow-derived GTPases encoded by interferon-activated genes and are inducible following IFN treatment (2,3). Specifically, GBP1 is expressed in cultured mammary epithelial tumor cell lines after treatment with IFN-gamma and LPS. **Function:** Binds GTP, GDP and GMP. **Subunit:** Homodimerizes upon GTP-binding, dimerization is required for the

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	second hydrolysis step from GDP to GMP. Can also heterodimerize with other members of the family. **Subcellular Location:** Cytoplasm. Golgi apparatus membrane; Lipid-anchor; Cytoplasmic side. Secreted. Note=Secreted from endothelial cells in the cerebrospinal fluid, upon bacterial challenge and independently of interferon-gamma induction. Golgi membrane localization requires isoprenylation and the presence of another IFN-gamma-induced factor. **Similarity:** Belongs to the GBP family. **Database links:** **Entrez Gene:** 26284 Human **Entrez Gene:** 57837 Mouse **Entrez Gene:** 363646 Rat Omim: 607435 Human **SwissProt:** O75616 Human **SwissProt:** Q9CZU4 Mouse **SwissProt:** Q5EBA0 Rat **Unigene:** 3426 Human **Unigene:** 21096 Mouse **Unigene:** 99076 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.