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[Marker Primary Antibody]

Rabbit Anti-GBP4/Biotin Conjugated antibody

Catalog Number: SL13303R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-GBP4/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human GBP4
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:	WB=1000-10000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: GBP4 is a 640 amino acid protein that localizes to the cytoplasm and belongs to the guanylate binding protein (GBP) family. Like other GBP proteins, GBP4 contains a conserved N-terminal GTP-binding domain and functions to bind and hydrolyze GTP, GDP and GMP, possibly playing a role in erythroid differentiation. The gene encoding GBP4 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in

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	chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma. **Function:** Binds GTP, GDP and GMP. Hydrolyzes GTP very efficiently; GDP rather than GMP is the major reaction product. Plays a role in erythroid differentiation. **Subcellular Location:** Cytoplasm. Nucleus. **Similarity:** Belongs to the GBP family. **Database links:** UniProtKB/Swiss-Prot: Q96PP9.2 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.