

IGBP1 Rabbit pAb

Catalog # AP98236

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P78318
Other Accession	P78318
Reactivity	Rat, Human
Predicted	Pig, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39222
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Immunoglobulin binding protein 1
Epitope Specificity	151-250/339
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the IGBP1/TAP42 family. Contains 1 UIM (ubiquitin-interacting motif) repeat.
SUBUNIT	Associates with PP2A-alpha and PP2A-beta catalytic subunits, and with PP4 and PP6. Interacts with MID1 and MID2. Interacts with Ubiquitin.
Post-translational modifications	Phosphorylated. Monoubiquitination by MID1 triggers calpain-mediated cleavage and switches IGBP1 activity from protective to destructive.
DISEASE	Mental retardation, X-linked, syndromic, 28 (MRXS28) [MIM:300472]: A mental retardation syndrome characterized by agenesis of the corpus callosum, coloboma of the iris and optic nerve, severe retrognathia, and intellectual deficit. Mental retardation is defined by significantly below average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Note=The disease is caused by mutations affecting the gene represented in this entry.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The proliferation and differentiation of B cells is dependent upon a B-cell antigen receptor (BCR) complex. Binding of antigens to specific B-cell receptors results in a tyrosine phosphorylation reaction through the BCR complex and leads to multiple signal transduction pathways. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	3476
Other Names	ALPHA-4; IBP1; MRXS28; alpha4; Pc52; Tap42; p52; IGBP1_HUMAN; IGBP1; B-cell signal transduction molecule alpha 4 (Protein alpha-4); CD79a-binding protein 1; Protein phosphatase 2/4/6 regulatory subunit; Renal carcinoma

antigen NY-REN-16; IGBP1_MOUSE; Alpha4 phosphoprotein; Lymphocyte signal transduction molecule alpha 4; IGBP1_RAT; immunoglobulin binding protein 1; immunoglobulin (CD79A) binding protein 1; alpha 4

Dilution IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 µg/Test

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name IGBP1

Synonyms IBP1

Function Associated to surface IgM-receptor; may be involved in signal transduction. Involved in regulation of the catalytic activity of the phosphatases PP2A, PP4 and PP6 by protecting their partially folded catalytic subunits from degradative polyubiquitination until they associate with regulatory subunits.

Cellular Location Cytoplasm.

Tissue Location Ubiquitously expressed with highest levels in heart, skeletal muscle and pancreas

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