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[Marker Primary Antibody]

Rabbit Anti-IGBP1/AF594 Conjugated antibody

Catalog Number: SL0298R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-IGBP1/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human Immunoglobulin binding protein 1
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:	Flow-Cyt=1μg/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Pig,Cow,GuineaPig)
Background:	background: 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]. **Function:** Associated to surface IgM-receptor; may be involved in signal transduction. Involved in regulation of the catalytic activity of PP2A, PP4 and PP6 phosphatases catalytic subunits by protecting them from degradative polyubiquitination until they associate with regulatory subunits. **Subunit:** Associates with PP2A-alpha and PP2A-beta catalytic subunits, and with PP4 and PP6. Interacts with MID1 and MID2. Interacts with Ubiquitin. **Subcellular Location:** Cytoplasm (Potential). **Tissue Specificity:** Ubiquitously expressed with highest levels in heart,

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skeletal muscle and pancreas.
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.
Similarity: Belongs to the IGBP1/TAP42 family.
Contains 1 UIM (ubiquitin-interacting motif) repeat.
Database links:
Entrez Gene: 3476 Human
Entrez Gene: 18518 Mouse
Entrez Gene: 58845 Rat
Omim: 300139 Human
SwissProt: P78318 Human
SwissProt: Q61249 Mouse
SwissProt: O08836 Rat
Unigene: 496267 Human
Unigene: 7454 Mouse
Unigene: 7079 Rat
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CD79a is expressed throughout the entire B-cell developmental stage from pro-B cells to plasma cells.
CD79a and CD79b form the B-cell receptor complex and play an important role in mediating the transfer of IgM from within the cell to the cell membrane. CD79a is a commonly used marker for B cells. The CD79 complex is a heterodimeric molecule composed of CD79a/mb-1 and CD79b/B29. On the B-cell surface, it is non-covalently linked to membrane-bound immunoglobulin, forming the B-cell antigen receptor. CD79a is found in most pro-B acute lymphocytic leukemias, B-cell lineages, B-cell lymphomas, and certain myelomas. It is mainly used for the identification of B lymphocytes and the diagnosis of B-cell lymphomas.