

## Rabbit Anti-IGBP1 antibody

SL0298R

<b>Product Name</b>	IGBP1
<b>Chinese Name</b>	免疫球蛋白 Binding protein-1 抗体
<b>Alias</b>	Alpha 4; B cell signal transduction molecule alpha 4; B-cell signal transduction molecule alpha 4; bA351K23.1; CD79a binding protein 1; CD79a-binding protein 1; IBP 1; IBP1; IGBP 1; Igbp1; IGBP1_HUMAN; Immunoglobulin (CD79A) binding protein 1; Immunoglobulin binding protein 1; Immunoglobulin-binding protein 1; Protein alpha 4; Protein alpha-4; Protein phosphatase 2A regulatory subunit alpha 4; Renal carcinoma antigen NY REN 16; Renal carcinoma antigen NY-REN-16.
<b>Research Area</b>	Tumour Cell biology immunology Neurobiology Signal transduction Kinases and Phosphatases
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Rat (predicted:Mouse,Pig,Cow,GuineaPig) IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1µg/Test (Paraffin sections need antigen repair)
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	44kDa
<b>Cellular localization</b>	cytoplasmic
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human Immunoglobulin binding protein 1: 151-250/339
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

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**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed** [PubMed](#)

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:**

**Product Detail** Ubiquitously expressed with highest levels in heart, 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.

**SWISS:**  
P78318

**Gene ID:**  
3476

**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

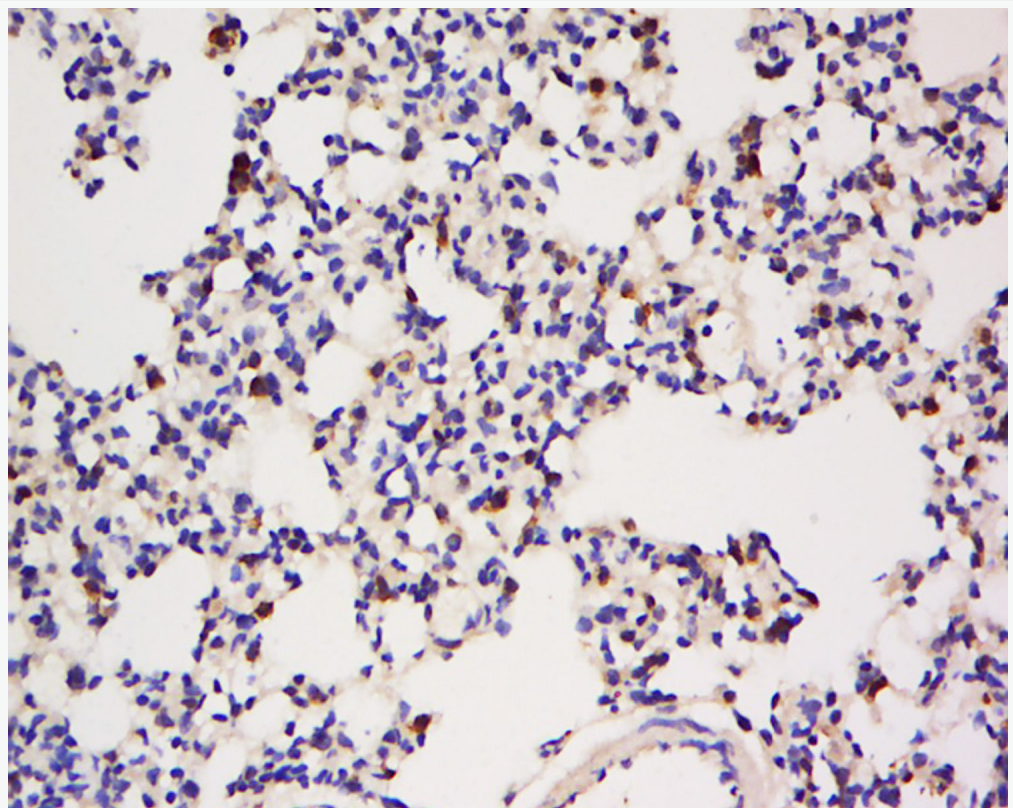
[Unigene: 496267](#) Human

[Unigene: 7454](#) Mouse

[Unigene: 7079](#) Rat

CD79a 表达于从前 B 细胞到浆细胞的整个 B 细胞发育阶段。CD79a 与 CD79b 构成 B 细胞受体复合体，在介导 IgM 从细胞内转到 The cell membrane 上起重要作用。CD79a 是 B 细胞常用标记物。CD79 复合物是异二聚体分子，由 CD79a/mb-1 和 CD79b/B29 组成。在 B 细胞表面非共价地与膜结合的免疫球蛋白相连，构成 B 细胞抗原受体。在大多数前 B 细胞急性 lymphocyte 白血病、B 细胞系、B 细胞淋巴瘤和某些骨髓瘤中发现有 CD79a 的存在。主要用于 B lymphocyte 的判断和 B 细胞淋巴瘤的诊断。

**Product  
Picture**



Tissue/cell: Rat lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

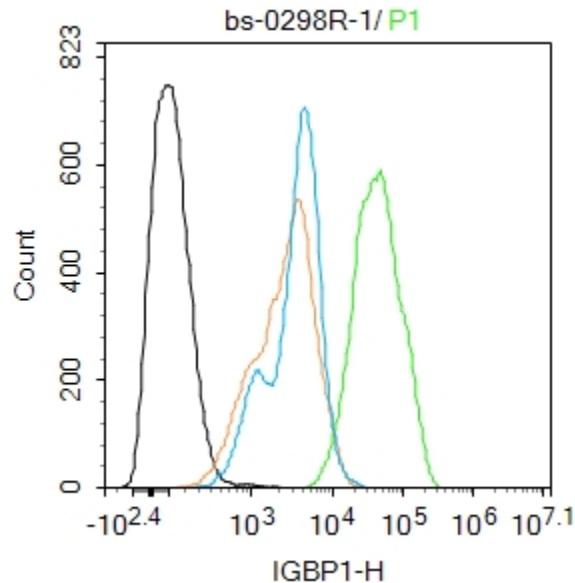
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min;

Block endogenous peroxidase by 3% Hydrogen peroxide for 30min;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-IGBP1 Polyclonal Antibody, Unconjugated(SL0298R)

1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (black line) :HepG2.

Primary Antibody (green line): Rabbit Anti-IGBP1 antibody (SL0298R)

Dilution: 1ug/Test;

Secondary Antibody (white blue line) : Goat anti-rabbit IgG-AF488

Dilution: 0.5ug/Test.

Isotype control (orange line) : Normal Rabbit IgG

#### Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for



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40 min at room temperature. Acquisition of 20,000 events was performed.