SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-Acid Phosphatase antibody

**Catalog Number: SL6291R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

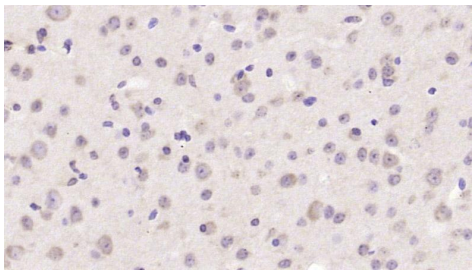
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|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Acid Phosphatase |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human Acid Phosphatase: 71-158/158 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Mouse(predicted:Human,Rat,Dog,Pig,Cow,Horse,Rabbit) |
| **Predicted MW.:** | 18kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | Phosphatase enzymes catalyse hydrolysis of phosphoric acid esters of various alcohols, e.g. a hexose phosphate, to yield the alcohol and free inorganic phosphate. This may be a way of recycling phosphate in the cell, and the level of phosphate may be elevated under conditions of phosphate starvation (in algae for example). Acid phosphatases have pH optima below 7, whereas alkaline phosphatases are most active above pH 7. Commercial quantities of acid phosphatase are obtained from plant sources e.g. potato and wheat germ, whereas similar quantities of alkaline phosphatase are obtained from animal intestine and bacteria.<br>**Function:** Acts on tyrosine phosphorylated proteins, low-MW aryl phosphates and natural and synthetic acyl phosphates. Isoform 3 does not possess phosphatase activity. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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|---|---|
| | **Subunit:** Isoform 1 interacts with the SH3 domain of SPTAN1. There is no interaction observed for isoforms 2 or 3. Interacts with EPHA2; dephosphorylates EPHA2. Interacts with EPHB1.<br>**Subcellular Location:** Cytoplasm.<br>**Tissue Specificity:** T-lymphocytes express only isoform 2.<br>**Similarity:** Belongs to the low molecular weight phosphotyrosine protein phosphatase family.<br>**Database links:**<br>**Entrez Gene:** 52 Human<br>**Entrez Gene:** 11431 Mouse<br>**Entrez Gene:** 631286 Mouse<br>**Entrez Gene:** 24161 Rat<br>Omim: 171500 Human<br>**SwissProt:** P24666 Human<br>**SwissProt:** Q9D358 Mouse<br>**SwissProt:** P41498 Rat<br>**Unigene:** 558296 Human<br>**Unigene:** 359831 Mouse<br>**Unigene:** 108187 Rat<br>**Unigene:** 202830 Rat<br>**Unigene:** 220315 Rat |

## [ VALIDATION IMAGES ]



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Acid Phosphatase) Polyclonal Antibody, Unconjugated (SL6291R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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