10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Pyrophosphatase 1 Rabbit mAb

Catalog # AP75981

## Product Information

| | |
|---|---|
| **Application** | WB, FC, IP |
| **Primary Accession** | Q15181 |
| **Reactivity** | Rat, Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Monoclonal Antibody |
| **Isotype** | IgG |
| **Conjugate** | Unconjugated |
| **Purification** | Affinity Purified |
| **Calculated MW** | 32660 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 5464 |
| **Other Names** | PPA1 |
| **Dilution** | WB~~1:500-1:1000 FC~~1:10~50 IP~~1:20 |
| **Format** | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |

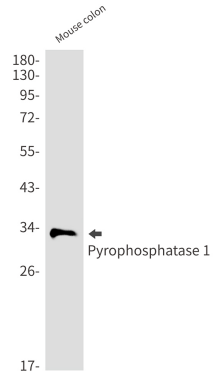
## Protein Information

| | |
|---|---|
| **Name** | PPA1 |
| **Synonyms** | IOPPP, PP |
| **Function** | Catalyzes the hydrolysis of inorganic diphosphate into two phosphate molecules (PubMed:33036755, PubMed:38428647). Has MAP kinase serine/threonine phosphatase activity toward c-Jun N-terminal kinase (JNK) and, in neuronal cells, is involved in the negative regulation of neurite growth via JNK dephosphorylation (By similarity). |
| **Cellular Location** | Cytoplasm. |
| **Tissue Location** | Expressed ubiquitously. |

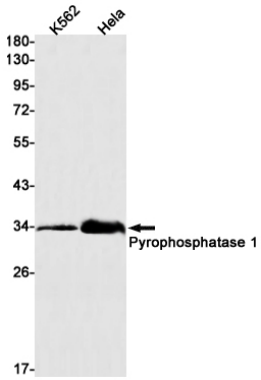
## Background

The protein encoded by this gene is a member of the inorganic pyrophosphatase (PPase) family. PPases catalyze the hydrolysis of pyrophosphate to inorganic phosphate, which is important for the phosphate metabolism of cells. Studies of a similar protein in bovine suggested a cytoplasmic localization of this enzyme.

## Images




Western blot analysis of Pyrophosphatase 1 in mouse colon lysates using Pyrophosphatase 1 antibody.




Western blot analysis of Pyrophosphatase 1 in K562, Hela lysates using Pyrophosphatase 1 antibody.

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