
Product Name: KD-Validated Inorganic Pyrophosphatase 1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00924**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 32.7kDa

Antigen Information

Gene Name	PPA1 PPA1; Inorganic Pyrophosphatase 1; Pyrophosphate Phospho-Hydrolase; SID6-8061; Ppase; PP1; PP; Cytosolic Inorganic Pyrophosphatase; Pyrophosphatase (Inorganic)1; Inorganic
Alternative Names	Diphosphatase 1; Inorganic Pyrophosphatase; EC 3.6.1.1; Epididymis Secretory Sperm Binding Protein Li 66p; Diphosphate Phosphohydrolase; Pyrophosphatase (Inorganic); Pyrophosphatase 1; HEL-S-66p; PPase
Gene ID	5464.0
SwissProt ID	Q15181
Immunogen	A synthesized peptide derived from human Pyrophosphatase 1

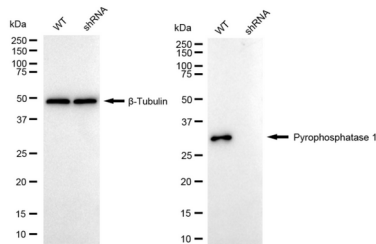
Background

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. [provided by RefSeq, Jul 2008]

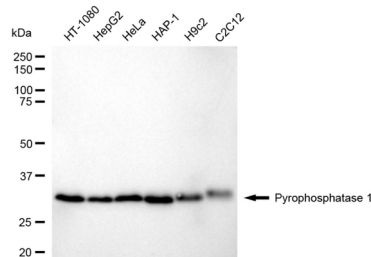
Research Area

Signal Transduction, Metabolism

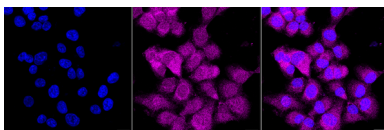
Image Data



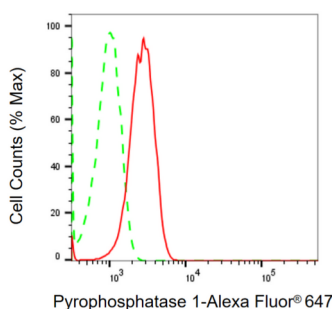
Western blotting analysis using Pyrophosphatase 1 antibody (KVA00924). Pyrophosphatase 1 expression in wild type (WT) and Pyrophosphatase 1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Pyrophosphatase 1 antibody (KVA00924, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Pyrophosphatase 1 antibody (KVA00924). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Pyrophosphatase 1 antibody (KVA00924, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Pyrophosphatase 1 antibody (KVA00924, 1:1,000). Nuclei were stained blue with DAPI; Pyrophosphatase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Pyrophosphatase 1 expression in HT-1080 cells using Pyrophosphatase 1 antibody (KVA00924, 1:2,000). Green, isotype control; red, Pyrophosphatase 1.