SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HDPTP antibody

Catalog Number: SL15434R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HDPTP
Immunogen:	KLH conjugated synthetic peptide derived from human HDPTP: 1501-1636/1636
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 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Chicken,Pig)
Predicted MW.:	179kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	HD-PTP is a 1,636 amino acid protein encoded by the human gene PTPN23. HD-PTP belongs to the protein-tyrosine phosphatase family, non-receptor class subfamily. It contains one BRO1 domain, two TPR repeats and one tyrosine-protein phosphatase domain. The C-terminal region contains the PTP-like domain, whereas the N-terminal region contains the two TPR regions. These regions are homologous to the yeast protein, BRO1, which is involved in the mitogen-activated protein kinase signaling pathway. Similarly, HD-PTP is believed to act as a negative regulator of Ras-mediated mitogenic activity and is phosphorylated upon DNA damage, probably by ATM or ATR. HD-PTP protein is differentially modulated by two angiogenic growth factors.

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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	While Vascular Endothelial Growth Factor (VEGF) has no affect on protein levels, Fibroblast Growth Factor-2 (FGF-2) induces HD-PTP degradation via the proteasome system. **Function:** May act as a negative regulator of Ras-mediated mitogenic activity. Plays a role in ciliogenesis. **Subunit:** Interacts with GRAP2 and GRB2. **Subcellular Location:** Nucleus. Cytoplasm. Cytoplasmic vesicle. Endosome. Cytoplasm, cytoskeleton, cilium basal body. **Similarity:** Belongs to the protein-tyrosine phosphatase family. Non-receptor class subfamily. Contains 1 BRO1 domain. Contains 2 TPR repeats. Contains 1 tyrosine-protein phosphatase domain. **Database links:** **Entrez Gene:** 25930 Human **Entrez Gene:** 104831 Mouse **Entrez Gene:** 117552 Rat Omim: 606584 Human **SwissProt:** Q8N6Z5 Human **SwissProt:** Q9H3S7 Human **SwissProt:** Q6PB44 Mouse **SwissProt:** Q8R1Z5 Mouse **SwissProt:** O88902 Rat **SwissProt:** Q9QZP8 Rat **Unigene:** 25524 Human **Unigene:** 123884 Mouse **Unigene:** 335477 Mouse **Unigene:** 54442 Rat

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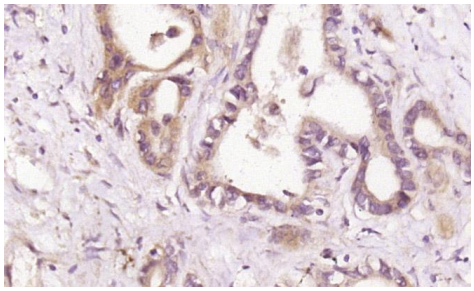
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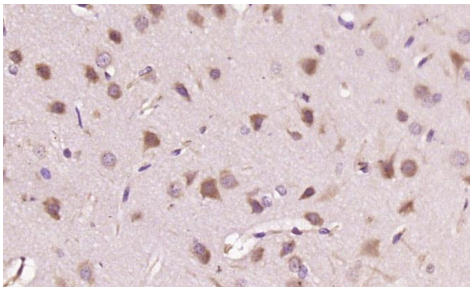
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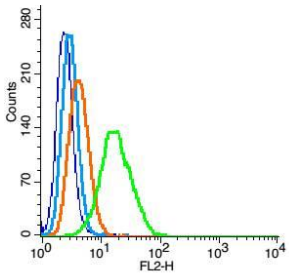
[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); 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 (HDPTP) Polyclonal Antibody, Unconjugated (SL15434R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (HDPTP) Polyclonal Antibody, Unconjugated (SL15434R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control: Hela(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue),
Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 1μg in 100 μL1X PBS containing 0.5% BSA(green).

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