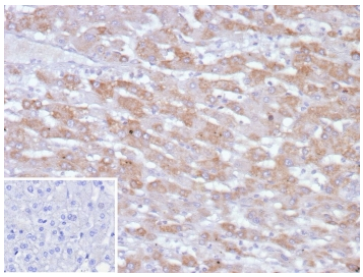
PHPT1 Antibody / Phosphohistidine phosphatase 1 [clone PHPT1/12053] (V5721)

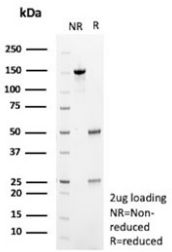
Catalog No.	Formulation	Size
V5721-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5721-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5721SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	PHPT1/12053
Purity	Protein A/G affinity
UniProt	Q9NRX4
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This PHPT1 antibody is available for research use only.



IHC staining of FFPE human hepatocellular carcinoma tissue with PHPT1 antibody (clone PHPT1/12053). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free PHPT1 antibody (clone PHPT1/12053) as confirmation of integrity and purity.

Description

PHPT1 (phosphohistidine phosphatase 1), also known as 14 kDa phosphohistidine phosphatase, is a 125 amino acid enzyme belonging to the Janus protein family. Existing as a monomer in the cytoplasm, PHPT1 is an EDTAinsensitive phosphohistidine phosphatase. First identified in human adrenal gland, PHPT1 is highly expressed in skeletal muscle and heart, with lower expression in liver, pancreas and kidney. Overexpression of PHPT1 leads to specific phosphohistidine phosphatase activity towards phosphopeptide I, with no activity detected towards phosphotyrosine, phosphothreonine and phosphoserine peptides. PHPT1 is highly conserved among species, suggesting that it serves an essential functional role.

Application Notes

Optimal dilution of the PHPT1 antibody should be determined by the researcher.

Immunogen

A recombinant human 14 kDa phosphohistidine phosphatase protein was used as the immunogen for the PHPT1 antibody.

Storage

Aliquot the PHPT1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.