Datasheet for ABIN2782195

anti-PTPN2 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	PTPN2
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Mouse, Guinea Pig, Horse, Rabbit, Dog, Cow, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human PTPN2
Sequence:	ESGSLNPDHG PAVIHCSAGI GRSGTFSLVD TCLVLMEKGD DINIKQVLLN
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against PTPN2. It was validated on Western Blot and immunohistochemistry.
Purification:	Affinity Purified

Target Details

Target:	PTPN2

Target Details

Alternative Name:	PTPN2 (PTPN2 Products)
Background:	PTPN2 is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling.The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Three alternatively spliced variants of this gene, which encode isoforms differing at their extreme C-termini, have been described. The different C-termini are thought to determine the substrate specificity, as well as the cellular localization of the isoforms. Two highly related but distinctly processed pseudogenes that localize to distinct chromosomes have been reported. Alias Symbols: PTPT, TC-PTP, TCELLPTP, TCPTP, PTN2 Protein Interaction Partner: UBC, BAG3, STAT1, STAT6, KATNB1, HSPD1, TRAF2, SRC, GHR, UCHL5, FKBP4, STAT5B, KPNB1, STAT5A, SHC1, JAK3, ITGA1, PDGFRB, JAK1, INSR, EGFR, CDK5, CDK2, CDK1, STAT3, SFN, Protein Size: 231
Molecular Weight:	25 kDa
Gene ID:	5771
NCBI Accession:	NM_001207013
UniProt:	P17706
Pathways:	EGFR Signaling Pathway, Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process, Platelet-derived growth Factor Receptor Signaling

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 231 AA
Restrictions:	For Research Use only

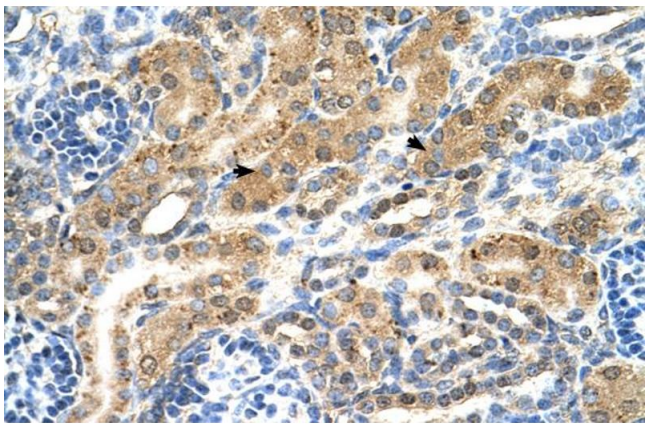
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images

Western Blotting

Image 1. WB Suggested Anti-PTPN2 Antibody Titration: 0.2-1 ug/ml Positive Control: Transfected 293T



Immunohistochemistry

Image 2. Human kidney