

DESCRIPTION

Species Reactivity	Human
Specificity	Detects the endogenous cleaved extracellular domain of human PTPσ/PTPRS in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human LAR, PTPRβ, PTPRδ, PTPRμ, or PTPRκ is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PTPσ/PTPRS Glu30-Gly1260 Accession # NP_570924
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Protein Tyrosine Phosphatase Receptor-type sigma (PTPRσ), also known as PTPσ, is an integral membrane protein with a non-glycosylated molecular weight of 214 kilodaltons. The extracellular domain, which was used as immunogen, is cleaved near the cell membrane by an endoprotease to generate a glycosylated 140 kDa protein. Significant levels of this protein are found in the brain and in endocrine tissues such as the pituitary gland and pancreas. Knockout mice deficient in PTPRσ have severe neurological deficits and most die shortly after birth.

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