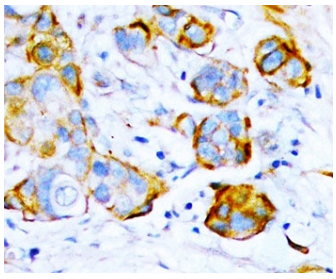
SHP2 Antibody / PTPN11 (R30279)

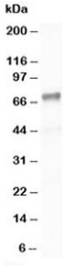
Catalog No.	Formulation	Size
R30279	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q06124
Localization	Cytoplasmic, nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This SHP2 antibody is available for research use only.



IHC-P: SHP2 antibody staining of human thyroid cancer tissue.



Western blot testing of SHP2 antibody and Jurkat cell lysate. Predicted molecular weight: ~68 kDa.

Description

The tyrosine phosphatase SHP2 is recruited into tyrosine-kinase signalling pathways through binding of its two amino-terminal SH2 domains to specific phosphotyrosine motifs, concurrent with its re-localization and stimulation of phosphatase activity. It can potentiate signalling through the MAP-kinase pathway and is required during early mouse development for gastrulation. SHP2 is specifically required in mesenchyme cells of the progress zone(PZ), directly beneath the distal ectoderm of the limb bud. Rather than integrating proliferative signals, it probably exerts its effects on limb development by influencing cell shape, movement or adhesion. Furthermore, the branchial arches, which also use Fgfs during bud outgrowth, similarly require Shp2. Thus, it regulates phosphotyrosine-signalling events during the complex ectodermal-mesenchymal interactions that regulate mammalian budding morphogenesis.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the SHP2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human SHP2 (EDSARVYENVGLMQQ) was used as the immunogen for this SHP2 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the SHP2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.