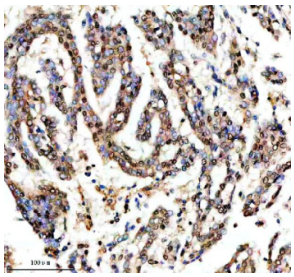
SHP2 Antibody / PTPN11 [clone GBO-16] (RQ8892)

Catalog No.	Formulation	Size
RQ8892	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

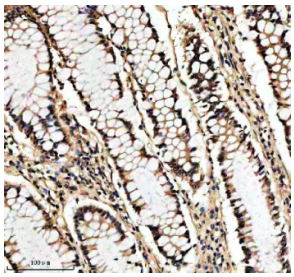
Recombinant RABBIT MONOCLONAL

Bulk quote request

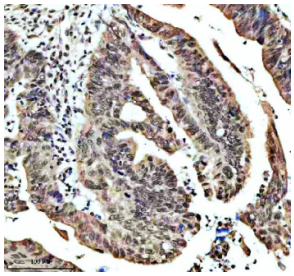
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	GBO-16
Purity	Affinity chromatography
UniProt	Q06124
Localization	Nucleus, Cytoplasm
Applications	Western blot: 1:500 Immunohistochemistry (FFPE): 1:50
Limitations	This SHP2 antibody is available for research use only.



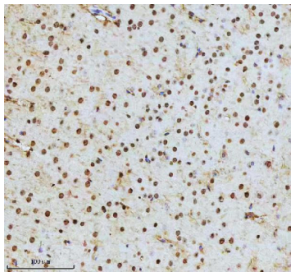
IHC staining of FFPE human lung cancer tissue with SHP2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



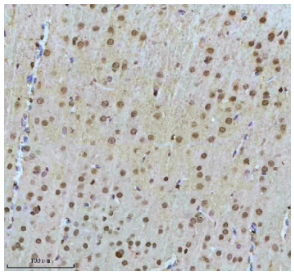
IHC staining of FFPE human colon tissue with SHP2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



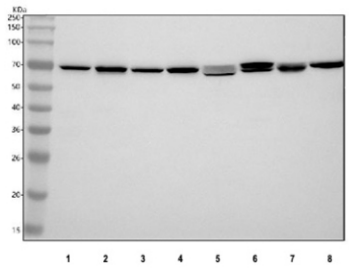
IHC staining of FFPE human colon cancer tissue with SHP2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse brain tissue with SHP2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with SHP2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) human Jurkat, 3) human HepG2, 4) human MCF7, 5) rat heart, 6) rat brain, 7) mouse heart and 8) mouse brain tissue lysate with SHP2 antibody. Predicted molecular weight ~70 kDa.

Description

SHP2 (PTPN11) is a cytoplasmic protein tyrosine phosphatase that plays a central role in multiple signaling pathways, including the RAS/MAPK cascade. It contains two SH2 domains that mediate interactions with phosphorylated proteins and a catalytic domain responsible for its phosphatase activity, regulating cell growth, differentiation, and migration.

SHP2 is essential for normal embryonic development, immune regulation, and tissue homeostasis. Mutations in SHP2 are associated with disorders such as Noonan syndrome, LEOPARD syndrome, and various cancers. Research on SHP2 provides valuable insights into the molecular mechanisms of signaling and their roles in both health and disease.

Using a high-quality SHP2 antibody enables precise detection in applications including western blot, immunohistochemistry, and immunoprecipitation. An SHP2 antibody from NSJ Bioreagents offers consistent performance for studies on cell signaling, developmental biology, and oncogenesis. Selecting the right SHP2 antibody ensures accurate and reproducible research outcomes.

Application Notes

Optimal dilution of the SHP2 antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to SHP2 was used as the immunogen for the SHP2 antibody.

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.

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