Data Sheet (Cat.No.TMAC-03746)

Anti-SHP-1 Antibody (7A74)

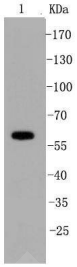
Product Details

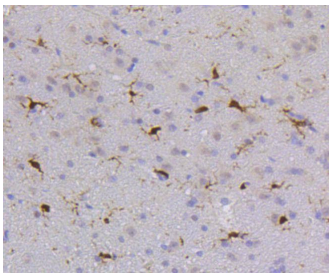
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 68 kDa.
Clone:	7A74
Purification:	ProA affinity purified

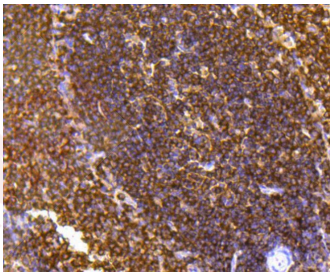
Applications

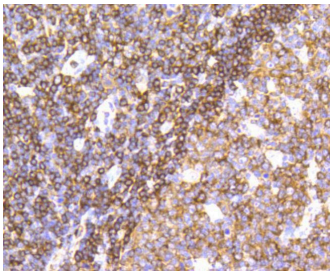
Verified Activity:

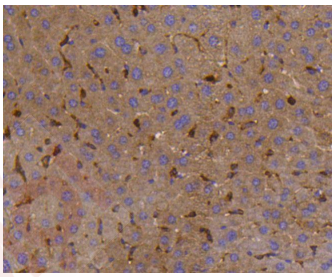
1. Western blot analysis of SHP1 on Raji cell lysates using anti-SHP1 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-SHP1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat spleen tissue using anti-SHP1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-SHP1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-SHP1 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-SHP1 antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-SHP1 antibody. Counter stained with hematoxylin.
8. ICC staining SHP1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining SHP1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. Flow cytometric analysis of Hela cells with SHP1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

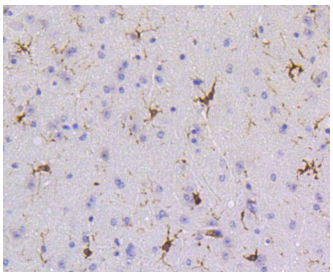


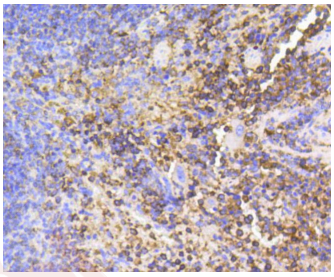


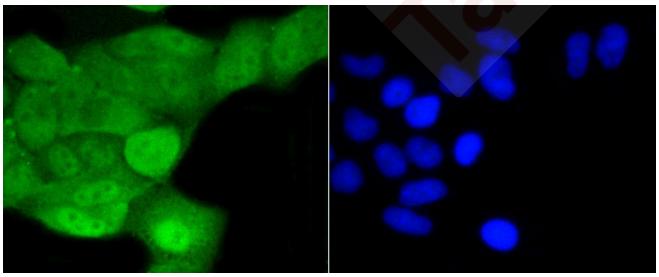


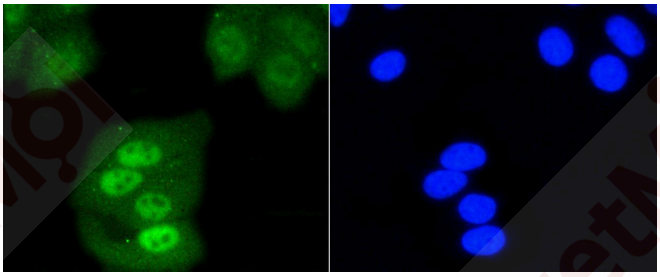


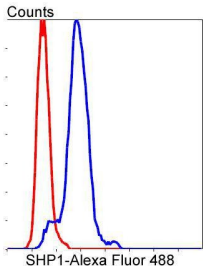












Application:	FCM,ICC/IF,IHC,IP,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P29350
Synonyms:	70Z-SHP;me;Hcph;PTPTY-42;protein tyrosine phosphatase, non-receptor type 6;Ptp1C;SH-PTP1;hcp;SHP-1

Research Background

The steady state of protein tyrosyl phosphorylation in cells is regulated by the opposing action of tyrosine kinases and protein tyrosine phosphatases (PTPs). Several groups have independently identified a non-transmembrane PTP, designated SH-PTP1 (also known as PTP1C, HCP and SHP), which is primarily expressed in hematopoietic cells and characterized by the presence of two SH2 domains N-terminal to the PTP domain. SH2 domains generally mediate the association of regulatory molecules with specific phosphotyrosine-containing sites on autophosphorylated receptors, thereby controlling the initial interaction of receptors with these substrates. A second and much more widely expressed PTP with SH2 domains, SH-PTP2 (also designated PTP1D and Syp), has been identified. Strong sequence similarity between SH-PTP2 and the Drosophila gene corkscrew (CSW) and their similar patterns of expression suggest that SH-PTP2 is the human corkscrew homolog.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481