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SHC2 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22349a

Product Information

Application	WB, FC, IF, E
Primary Accession	P98077
Reactivity	Human, Rat, Mouse
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB58088
Calculated MW	61916

Additional Information

Gene ID	25759
Other Names	SHC-transforming protein 2, Protein Sck, SHC-transforming protein B, Src homology 2 domain-containing-transforming protein C2, SH2 domain protein C2, SHC2, SCK, SHCB
Target/Specificity	This SHC2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 129-163 amino acids from the human region of human SHC2.
Dilution	WB~~1:2000 FC~~1:25 IF~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SHC2 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SHC2
Synonyms	SCK, SHCB
Function	Signaling adapter that couples activated growth factor receptors to signaling

	pathway in neurons. Involved in the signal transduction pathways of neurotrophin-activated Trk receptors in cortical neurons (By similarity).
Tissue Location	Expressed in brain. Expressed at high level in the hypothalamus and at low level in the caudate nucleus

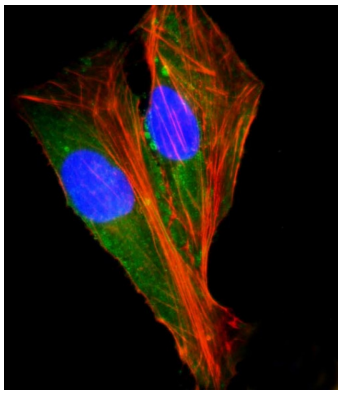
Background

Signaling adapter that couples activated growth factor receptors to signaling pathway in neurons. Involved in the signal transduction pathways of neurotrophin-activated Trk receptors in cortical neurons (By similarity).

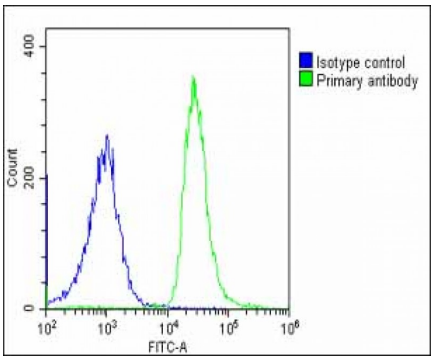
References

Grimwood J.,et al.Nature 428:529-535(2004).
Nakamura T.,et al.J. Biol. Chem. 273:6960-6967(1998).
Pelicci G.,et al.Oncogene 13:633-641(1996).
Kavanaugh W.M.,et al.Science 266:1862-1865(1994).
Liu H.Y.,et al.J. Biol. Chem. 277:26046-26056(2002).

Images

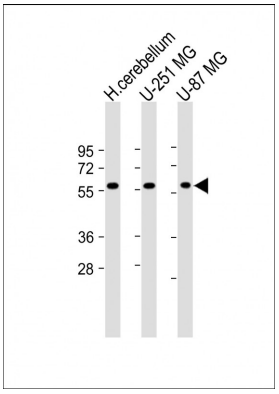


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (human osteosarcoma cell line) cells labeling SHC2 with AP22349a at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and weak nucleus staining on U-2 OS cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).



Overlay histogram showing U-2 OS cells stained with AP22349a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22349a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OE188374) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti-SHC2 Antibody (N-Term) at 1:2000 dilution Lane 1: Human cerebellum lysate Lane 2: U-251 MG whole cell lysate Lane 3: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa Blocking/Dilution



buffer: 5% NFDM/TBST.