SHC1
Rabbit Anti-Human SHC-transforming Protein 1 Clone Poly6152 pAb

Catalog No.	CSI14368 CSI14369	**Quantity:**	50 µl 200 µl

Alternate Names: SHC (Src homology 2 domain containing) transforming protein 1

Description: Shc (Src homology 2 containing protein) was originally identified as a protooncogene involved in growth factor signaling. A cytoplasmic protein, Shc becomes phosphorylated by tyrosine kinases involved in growth factor signaling, antigen receptor signaling, hormone receptor signaling, cytokine receptor signaling, G-coupled receptor signaling, and integrin signaling. Shc functions as an adaptor molecule in signal transduction pathways by virtue of its SH2, SH3, PTB domains. Three isoforms of Shc exist with apparent molecular weights of 46 kD, 52 kD, and 66 kD. Shc facilitates activation of Ras proteins in response to a variety of stimuli and can form stable complexes with receptor tyrosine kinases and receptors devoid of intrinsic kinase activity. Shc has been shown to interact with Grb2 and SOS, receptor tyrosine kinases associated with the receptors for EGF, PDGF, HGF, erbB-2, insulin, and the cytoplasmic tyrosine kinases Lck, Src, and Sea. The Poly6152 antibody recognizes the N-terminal region of human Shc and is useful for Western blotting.

Modification: Phosphorylation by receptor and cytoplasmic TKs

Gene ID: 6464

Regulation: Activated upon phosphorylation

Distribution: Cytoplasm

Immunogen: Recombinant (partial), N-terminal

Isotype: Rabbit IgG

Clone: Poly6152

Structure: SH2, SH3, PTB/PID, CH1 domains, p66 contains CH2 domain. Three isoforms approximately 46 kD, 52 kD, 66 kD

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: The antibody was purified by antigen-affinity chromatography.

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Function: Adaptor in signal transduction pathways. Facilitates activation of Ras proteins in response to a variety of factors, forms stable complexes with RTKs and receptors devoid of intrinsic TK activity but are thought to signal by recruiting and activating cytoplasmic TKs.

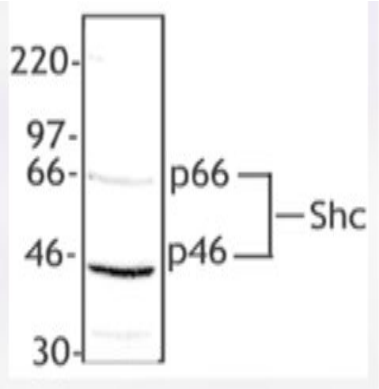
Reactivity: Human

Applications: Western Blot

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: Upon receipt, store frozen at -20° C.

MOLT-4 cell lysate was resolved by electrophoresis, transferred to nitrocellulose and probed with rabbit anti-Shc antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



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