

Product datasheet for **AM00143PU-N**

SHC (SHC1) (N-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 24E4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	24E4
Applications:	WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Included Positive Control: Cell lysate from untreated Neuro 2A cells (See Protocol below).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugated to KLH. Epitope: N-terminus.
Specificity:	This antibody specifically recognizes the N- terminus of Shc/p66.
Formulation:	PBS containing 0.09% Sodium Azide, PEG and Sucrose, 50% Glycerol State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	66 kDa
Gene Name:	SHC adaptor protein 1
Database Link:	Entrez Gene 6464 Human P29353



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Background: Mammalian cells can express three alternatively spliced isoforms of the shc adaptor protein: shc/p46, shc/p52 and shc/p66. shc/p66 contains a unique N-terminal protein domain. In addition to tyrosine phosphorylation of Tyr 239/240 and/or Tyr 317, shc/p66 is phosphorylated at serine 36, e.g. in response to EGF. Serine phosphorylation of shc/p66 impairs its ability to bind to the activated EGF receptor thus inhibiting EGF receptor downstream signalling pathways.

Synonyms: SHC-transforming protein 1, SHC-transforming protein A, SHC-transforming protein 3, SHCA

Note: Protocol: **Included Positive Control: Cell lysate from untreated Neuro 2A cells.**

Formulation: Lyophilized cell lysate from serum starved Neuro 2A cells.

Reconstitution: Reconstitute by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 54 min.

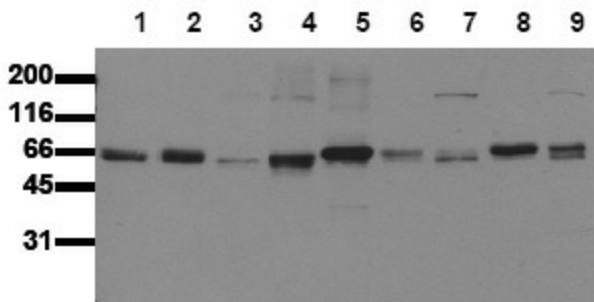
Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl of positive control cell lysate correspond to ca. 20.000 cells.

Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Please note: The cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation!

Storage: Aliquot and store at -20°C.
Avoid repeated freezing and thawing.

Product images:



Detection of endogenous p66shc: Whole cell lysates of serum starved tumor cells (ca. 20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab shc/p66-24E4 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: HeLa Lane 2: HepG2 Lane 3: HEK293 Lane 4: SH-SY5Y Lane 5: MDCK Lane 6: PC12 Lane 7: CMT 93 Lane 8: Neuro 2A Lane 9: 3T3