

## Product datasheet for **AM00141PU-N**

### SHC (SHC1) pTyr239/240 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 1E3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1E3
Applications:	ELISA, IHC, 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. ELISA: 0.05 µg/ml. Immunohistochemistry.
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	This antibody specifically recognizes shc when it is phosphorylated at Tyr 239/Tyr 240.
Formulation:	1 ml PBS / 0.09 % Na-azide / PEG and Sucrose State: Purified State: Lyophilized purified IgG
Reconstitution Method:	Restore with 1 ml H <sub>2</sub> O (15 min, RT).
Purification:	Size exclusion chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.
Gene Name:	SHC adaptor protein 1
Database Link:	<a href="#">Entrez Gene 6464 Human P29353</a>



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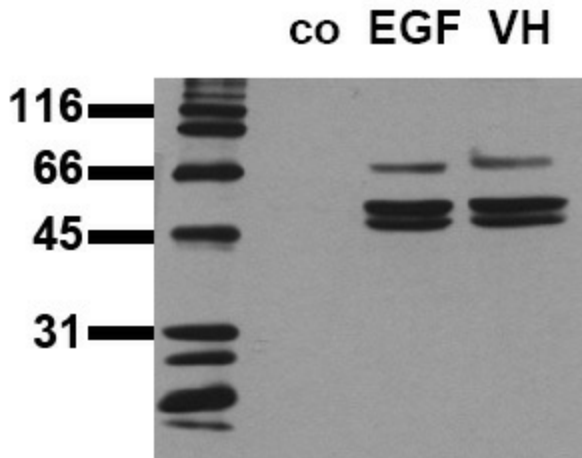
**Background:**

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 signaling pathways.

**Synonyms:**

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

**Product images:**



Phosphospecificity Whole cell extracts of control (co), EGF-stimulated (EGF) or pervanadate-treated (VH) A549 tumor cells were applied to SDS-PAGE (ca. 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab shc-1E3 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).