

Mouse Monoclonal Antibody to

shc (phospho-Tyr 239/240)

clone 1E3

Order No.: 0093-100/shc-1E3

Size (µg) 100

Lot No.: 0093S



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03/080507F

| Isotype | Species Reactivity | Applications | Mol. Weight | Ref. Cell Line | Epitope | Immunogen |
|---------|--------------------|--------------|--------------|----------------|--|----------------------------------|
| IgG1 | human, mouse, dog | WB, IHC | 46/52/66 kDa | HepG2 | phosphotyrosine 239/240 D H Q pY pY N D F | phosphopeptide conjugated to KLH |

Background and Specificity:

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.

Mab shc-1E3 specifically recognizes shc when it is phosphorylated at Tyr 239/Tyr 240.

Related Products

mab to shc (C-terminus)

#0151-100/shc-11F6

mab to shc (phospho-Tyr 317)

#0100-100/shc-15E11

mab to shc/p66 (N-terminus)

#0180-100/shc/p66-24E4

mab to shc/p66 (phospho-Ser 36)

#0094-100/shc/p66-6E10

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

Formulation: lyophilized from 1 ml PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H₂O (15 min, RT).

Stability: For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

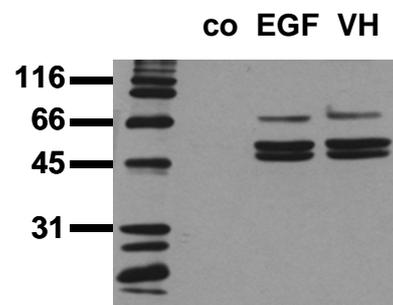
Positive Control: #0812: Cell lysate from pervanadate-treated HepG2 cells

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml



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 µg/ml) for 1h at RT and developed by ECL (exp. time: 30 sec).

All products are supplied for research and investigational use only. Not for use in humans or laboratory animals.