

## Mouse Monoclonal Antibody to

# shc (phospho-Tyr 317)

## clone 15E11

**Order No.:** 0100-100/shc-15E11

**Size (µg)** 100

**Lot No.:** 0100S



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Isotype	Species Reactivity	Applications	Mol. Weight	Ref.Cell Line	Epitope	Immunogen
IgG1	human, mouse, dog	WB, IHC	46/52/66 kDa	HepG2	Phosphotyrosine 317 D P S pY V N V	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 signalling pathways.

**Mab shc-15E11** specifically recognizes shc when it is phosphorylated at Tyr 317.

### Related Products

**mab to shc (C-terminus)**

#0151-100/shc-11F6

**mab to shc (phospho-Tyr239/240)**

#0093-100/shc-1E3

**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 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

**Reconstitution:** Reconstitute with 1 ml H<sub>2</sub>O (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

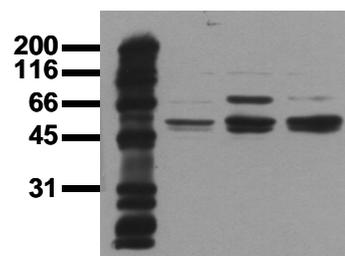
**Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection  
**Recommended blocking buffer:** Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

**Immunoprecipitation:** ND

**Immunocytochemistry:** ND

**ELISA:** ND

co EGF VH



**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-15E11 (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.**