

Datasheet: MCA6170

Description:	MOUSE ANTI SHC1
Specificity:	SHC1 p66/p52/p46
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	F02/2H5
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein, aa 484-583 of human SHC1
External Database Links	<p>UniProt: P29353 Related reagents</p> <p>Entrez Gene: 6464 SHC1 Related reagents</p>
Synonyms	SHC, SHCA
Specificity	<p>Mouse anti SHC1 p66/p52/p46 antibody recognizes SHC-transforming protein 1, also known as SHC and SHCA.</p> <p>SHC1 is a ubiquitously-expressed signaling adapter, linking activated growth factor receptors to signaling pathways. Importantly, EGFR signaling is mediated by phosphorylation and interactions of SHC1 protein, defining output from the EGFR pathway (Zheng et al. 2013). SHC1 exists as three functionally-distinct isoforms with molecular weights 46 kDa, 52 kDa and 66 kDa. These isoforms are encoded from the same gene, sharing a common structure and each possessing several phosphorylation sites (Mehlitz et al. 2010). SHC1 plays an oncogenic role in several cancer types (An et al. 2016). Isoforms of SHC1 may have distinct roles in disease. Notably, the p52 isoform of SHC1 contributes to breast cancer initiation (Wright et al. 2019).</p>
Western Blotting	Mouse anti SHC1 antibody detects bands of approximately 51 kDa, 55 kDa, and 66 kDa in HeLa cell lysates
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6170 10040
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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