

Datasheet: MCA6170

**BATCH NUMBER 100004682**

<b>Description:</b>	MOUSE ANTI SHC1
<b>Specificity:</b>	SHC1 p66/p52/p46
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	F02/2H5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein, aa 484-583 of human SHC1
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P29353</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">6464</a>    SHC1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	SHC, SHCA
<b>Specificity</b>	<p><b>Mouse anti SHC1 p66/p52/p46 antibody</b> 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 (<a href="#">Zheng et al. 2013</a>). 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 (<a href="#">Mehlitz et al. 2010</a>). SHC1 plays an oncogenic role in several cancer types (<a href="#">An et al. 2016</a>). Isoforms of SHC1 may have distinct roles in disease. Notably, the p52 isoform of SHC1 contributes to breast cancer initiation (<a href="#">Wright et al. 2019</a>).</p>
<b>Western Blotting</b>	Mouse anti SHC1 antibody detects bands of approximately 51 kDa, 55 kDa, and 66 kDa in HeLa cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6170">https://www.bio-rad-antibodies.com/SDS/MCA6170</a> 10040
<b>Regulatory</b>	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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