

Datasheet: MCA6170

BATCH NUMBER 100004682

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|----------------------|------------------------|
| 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

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|---------------------------------------|---|
| 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 |

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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)

