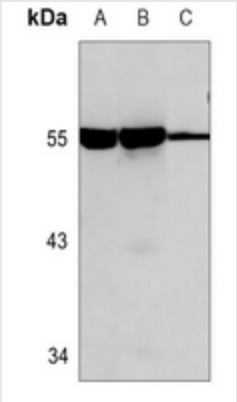
# SHB Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SHB, Polyclonal Antibody |
| **Full Product Name** | Anti-SHB Antibody |
| **Product Gene Name** | anti-SHB antibody |
| **Product Synonym Names** | SH2 domain-containing adapter protein B |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Purity/Purification** | The antibody was purified by immunogen affinity chromatography. |
| **Preparation and Storage** | Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles. |
| **Molecular Weight** | 55,042 Da |
| **Chromosome Location** | Chromosome: 9; NC_000009.11 (37915895..38069210, complement). Location: 9p13.2 |
| **OMIM** | 600314 |
| **3D Structure** | ModBase 3D Structure for Q15464 |
| **Immunogen** | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SHB. The exact sequence is proprietary. |
| **Product Categories/Family for anti-SHB antibody** | Primary Antibody |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-SHB antibody** | Western Blot (WB) |
| **Application Notes for anti-SHB antibody** | WB: 1:500-1:1000 |
| **Related Product Information for anti-SHB antibody** | MBS8605499 is an antibody targeting SHB. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to SHB |
| **Other Notes** | Small volumes of anti-SHB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-SHB antibody**
Western blot analysis of SHB expression in U87MG (A), mouse kidney (B), rat kidney (C) whole cell lysates.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SHB. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 106879210 |
| **NCBI GeneID** | 6461 |
| **NCBI Accession #** | NP_003019.2 |
| **UniProt Primary Accession #** | Q15464 |
| **UniProt Secondary Accession #** | Q504U5; Q5VUM8; B9EGM0; D3DRQ5 |
| **UniProt Related Accession #** | Q15464 |
| **GenBank Nucleotide #** | NM_003028.2 |
| **NCBI Official Full Name** | SH2 domain-containing adapter protein B |
| **NCBI Official Synonym Full Names** | Src homology 2 domain containing adaptor protein B |
| **NCBI Official Symbol** | SHB |
| **NCBI Official Synonym Symbols** | bA3J10.2; RP11-3J10.8 |
| **UniProt Protein Name** | SH2 domain-containing adapter protein B |
| **Protein Family** | SH2 domain-containing adapter protein |
| **UniProt Gene Name** | SHB |
| **UniProt Entry Name** | SHB_HUMAN |
| **NCBI Protein Information** | SH2 domain-containing adapter protein B; SHB adaptor protein (a Src homology 2 protein); SHB (Src homology 2 domain containing) adaptor protein B |

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| **UniProt Comments for SHB** | SHB: Adapter protein which regulates several signal transduction cascades by linking activated receptors to downstream signaling components. May play a role in angiogenesis by regulating FGFR1, VEGFR2 and PDGFR signaling. May also play a role in T-cell antigen receptor/TCR signaling, interleukin-2 signaling, apoptosis and neuronal cells differentiation by mediating basic- FGF and NGF-induced signaling cascades. May also regulate IRS1 and IRS2 signaling in insulin-producing cells. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Adaptor/scaffold<br><br>Chromosomal Location of Human Ortholog: 9p13.2<br><br>Cellular Component: plasma membrane; cytosol<br><br>Molecular Function: protein binding; SH3/SH2 adaptor activity<br><br>Biological Process: positive regulation of signal transduction; apoptosis; angiogenesis; signal transduction; cell differentiation; vascular endothelial growth factor receptor signaling pathway |
| **Research Articles on SHB** | **1.** It is concluded that SHB and angiogenic factors promote the development of cells expressing PDX-1 and insulin in EBs and that such cells can be separated by FACS. |
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