

Datasheet: AHP1465

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| Description: | RABBIT ANTI SMAD3 |
| Specificity: | SMAD3 |
| Format: | Purified |
| Product Type: | Polyclonal Antibody |
| Isotype: | Polyclonal IgG |
| Quantity: | 50 µg |

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 |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry | | | ■ | |
| Immunohistology - Frozen | | | ■ | |
| Immunohistology - Paraffin (1) | ■ | | | 2.5ug/ml |
| ELISA | ■ | | | 1/25000 - 1/100000 |
| Western Blotting | ■ | | | 1/2000 - 1/20000 |
| Functional Assays | | | ■ | |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

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| Target Species | Human |
| Species Cross Reactivity | Reacts with: Mouse, Pig, Rat, Amphibia, Zebrafish, Bovine, Chicken N.B. Antibody reactivity and working conditions may vary between species. |
| Product Form | Purified IgG - liquid |
| Antiserum Preparation | Antiserum to human SMAD3 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography. |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.01% Sodium Azide (NaN ₃) |
| Approx. Protein Concentrations | IgG concentration 1.0mg/ml |
| Immunogen | Synthetic peptide corresponding to amino acids 417-425 of human SMAD3 protein. |

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| External Database Links | UniProt: P84022 Related reagents |
| | Entrez Gene: 4088 SMAD3 Related reagents |
| Synonyms | MADH3 |
| Specificity | <p>Rabbit anti Human SMAD3 antibody recognizes Mothers against decapentaplegic homolog 3 (SMAD3), a 50 kDa transcriptional modulator activated by TGF-beta and activin type 1 receptor kinase,</p> <p>SMAD3 functions in cell proliferation, differentiation and development. Upon stimulation, SMAD3 oligomerizes with SMAD4 and translocates into the nucleus where it binds to DNA and transcription factors. SMAD3 activity induces differentiation of selected neuronal subtypes at the expense of other subtypes.</p> <p>Defects in SMAD3 may be a cause of colorectal cancer (Sjöblom et al. 2006).</p> |
| Histology Positive Control Tissue | Human skin |
| Storage | <p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p> |
| Shelf Life | 18 months from date of despatch. |
| Health And Safety Information | Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

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| Sheep Anti Rabbit IgG (STAR34...) | FITC |
| Sheep Anti Rabbit IgG (STAR35...) | RPE |
| Goat Anti Rabbit IgG (H/L) (STAR124...) | HRP |
| Goat Anti Rabbit IgG (Fc) (STAR121...) | Biotin , FITC , HRP |
| Sheep Anti Rabbit IgG (2AB02...) | Biotin |
| Sheep Anti Rabbit IgG (STAR36...) | DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 |

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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