

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                               |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human BASP1 in Western blots.                                               |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                           |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human BASP1<br>Gly2-Ala45<br>Accession # P80723 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm     |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                        |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                     |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

BASP1 (Brain acid soluble protein 1; also NAP-22) is a transcriptional cosuppressor that belongs to the BASP1 family of proteins. Although its predicted MW is 23 kDa, BASP1 will show multiple bands in SDS-Page. First, BASP1 forms oligomers in SDS, ranging in size from 30-150 kDa. Second, varying concentrations of SDS will change the apparent BASP1 MW from 56 kDa in 8% SDS-Page to 41 kDa in 13% SDS-Page. At least two forms of BASP1 apparently exist in human, one that is 48-52 kDa, and another that is 32-40 kDa in size. They are not functionally equivalent. BASP1 can be SUMOylated that add 20 kDa in apparent MW. There are also N-terminal fragments termed BIRPs that run from 30-50 kDa in 12% acidic SDS-Page. BASP1 is expressed in neurons, renal podocytes and spermatids. It binds to the cytoplasmic side of the plasmalemma via its myristoylate adduct, and undergoes nuclear translocation when SUMOylated. Human BASP1 is 227 amino acids (aa) in length. It contains a myristoylation site at Gly2, SUMOylation sites at Lys79 and 84, at least eight utilized phosphorylation sites, and an NLS. One splice variant shows a deletion of aa 88-141. Over aa 1-45, human BASP1 shares 96% and 91% aa identity with mouse and rat BASP1, respectively.

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