

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse                                                                                                                                                                                                                                                                 |
| <b>Specificity</b>        | Detects human and mouse SEZ6L2/BSRP-A in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant mouse (rm) BSRP-B and rmBSRP-C is observed.                                                                    |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse SEZ6L2/BSRP-A<br>Leu28-Ser837<br>Accession # Q4V9Z5                                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | 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

SEZ6L2 (Brain-specific receptor-like protein A; also BSRP-A) is a 170 kDa member of the BSRP family of proteins. It is expressed in the plasma membrane and ER of CNS neurons and likely regulates PKCα activation. Mature mouse SEZ6L2 is an 890 amino acid (aa) type I transmembrane protein. It contains an 824 aa extracellular domain (ECD) (aa 21-844) and a 43 aa cytoplasmic tail. The ECD shows two CUB domains and five short consensus repeats (SCRs). There are multiple isoforms for SEZ6L2. One shows a premature truncation after Arg403, a second shows a deletion of aa 71-130, and a third likely represents the full-length form that contains a 13 aa insertion after Val830. Over aa 28-837, mouse SEZ6L2 is 96% and 99% aa identical to human and rat SEZ6L2, respectively.

#### PRODUCT SPECIFIC NOTICES

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