

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse SEZ6L in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant mouse (rm) BSRP-A 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 SEZ6L<br>Glu32-Ser889<br>Accession # AAH65117                                                                                                                                                                         |
| <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<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.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

SEZ6L (Seizure 6-Like protein; also BSRP-B/Brain-specific receptor-like protein B) is a 200-210 kDa member of the SEZ6 family of proteins. It is expressed in the plasma membrane and ER of CNS neurons, particularly cerebellar interneurons plus Purkinje and granule cells. SEZ6L likely regulates Ca<sup>++</sup> availability and thus impacts PKC $\alpha$  activation and mGluR1 signaling. Mature mouse SEZ6L is a 932 amino acid (aa) type I transmembrane protein. It contains an 866 aa extracellular domain (ECD) (aa 32-897) and a 45 aa cytoplasmic tail. The ECD shows three CUB domains and five short consensus repeats (SCRs). There is one 190-200 kDa splice variant termed BSRP-B that contains a Phe substitution for aa 807-872 of the fifth SCR domain. Over aa 32-889, mouse SEZ6L shares 80% and 97% aa identity with human and rat SEZ6L, respectively.

## PRODUCT SPECIFIC NOTICES

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