

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse SEZ6L2/BSRP-A in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) BSRP-B or rmBSRP-C is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 529805
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse SEZ6L2/BSRP-A Leu28-Ser837 Accession # Q4V9Z5
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

<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

BSRP-A (Brain-specific receptor-like protein A; also known as SEZ6L2) 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 PKC $\alpha$  activation. Mature mouse BSRP-A 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 BSRP-A. 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 BSRP-A shares 96% and 99% aa sequence identity with human and rat BSRP-A, respectively.

## PRODUCT SPECIFIC NOTICES

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