

## 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>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.                  |

## 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.

|                             | Recommended Concentration | Sample                          |
|-----------------------------|---------------------------|---------------------------------|
| <b>Western Blot</b>         | 0.1 µg/mL                 | Recombinant Mouse SEZ6L2/BSRP-A |
| <b>Immunohistochemistry</b> | 5-15 µg/mL                | See Below                       |

## DATA

### Immunohistochemistry



#### SEZ6L2/BSRP-A in Mouse Embryo.

SEZ6L2/BSRP-A was detected in immersion fixed frozen sections of mouse embryo (15 d.p.c.) using Sheep Anti-Human/Mouse SEZ6L2/BSRP-A Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4916) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to developing brain (medulla oblongata), spinal cord, trigeminal ganglia, and retina. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.2 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## 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.