

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG _{2A} Clone # 529805
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse SEZ6L2/BSRP-A Leu28-Ser837 Accession # Q4V9Z5
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	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.
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

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 α 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.

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