

DESCRIPTION

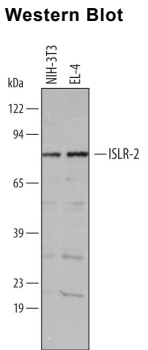
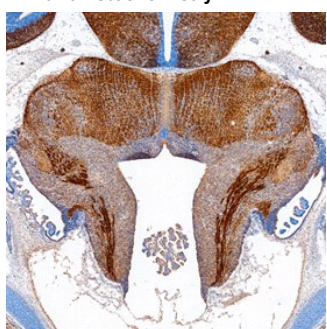
Species Reactivity	Mouse
Specificity	Detects mouse ISLR-2 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant human ISLR-2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse ISLR-2 Cys20-Leu590 Accession # Q5RKR3
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *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
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	Immersion fixed mouse embryonic retina cells (E15)
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Mouse ISLR-2 by Western Blot. Western blot shows lysates of NIH-3T3 mouse embryonic fibroblast cell line and EL-4 mouse lymphoblast cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Mouse ISLR-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4650) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ISLR-2 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>ISLR-2 in Embryonic Mouse Brainstem. ISLR-2 was detected in immersion fixed frozen sections of embryonic mouse brainstem (13 d.p.c.) using Sheep Anti-Mouse ISLR-2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4650) 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 neuronal processes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>
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PREPARATION AND STORAGE

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

BACKGROUND

ISLR2 (Ig-superfamily containing LRR protein 2; also SST273) is a 100-110 kDa member of the LRR family of proteins. It is expressed on developing motor, sensory and interneurons. Mouse ISLR2 is 745 amino acids (aa) in length. It is a type I transmembrane glycoprotein that contains a 571 aa extracellular domain (ECD) and a 132 aa cytoplasmic region. The ECD shows multiple LRRs (aa 21-231) and one Ig-like domain (aa 251-374). Mouse ISLR2 apparently has one alternate start site at Met130. Over aa 20-590, mouse ISLR2 is 89% and 98% aa identical to human and rat ISLR2, respectively.