

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse SLAIN1.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse SLAIN1 Met262-Gln483 Accession # Q68FF7
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

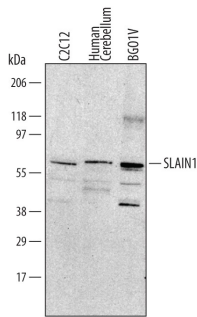
APPLICATIONS

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	See Below

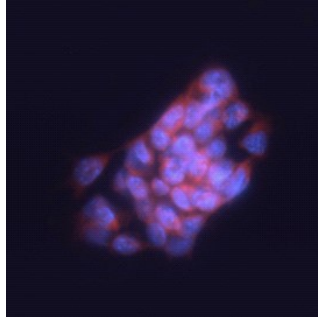
DATA

Western Blot



Detection of Human/Mouse SLAIN1 by Western Blot.
Western blot shows lysates of C2C12 mouse myoblast cell line, human cerebellum tissue, and BG01V human embryonic stem cells. PVDF membrane was probed with 1 µg/mL of Human/Mouse SLAIN1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5638) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SLAIN1 at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

Immunocytochemistry



SLAIN1 in D3 Mouse Cell Line. SLAIN1 was detected in immersion fixed D3 mouse embryonic stem cell line using 10 µg/mL Human/Mouse SLAIN1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5638) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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

SLAIN1 (SLAIN motif-containing protein 1) is a 61 kDa (predicted) member of the SLAIN motif containing family of proteins. It is expressed in embryonic stem cells plus cells of the neural tube, and also appears in multiple adult tissues. Its function is unclear. Mouse SLAIN1 is 579 amino acids (aa) in length. It contains a coiled-coil region (aa 21-56), a Pro-rich segment (aa 64-160), and one C-terminal SLAIN (SerLeuAlaIleAsn) motif. There are two potential splice variants. One shows an alternate start site at Met262, while another shows a 50 aa insertion after Gln231. Over aa 262-483, mouse SLAIN1 shares 96% and 92% aa identity with rat and human SLAIN1, respectively.