

DESCRIPTION

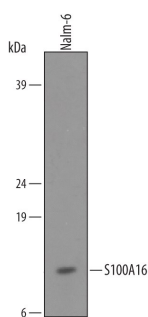
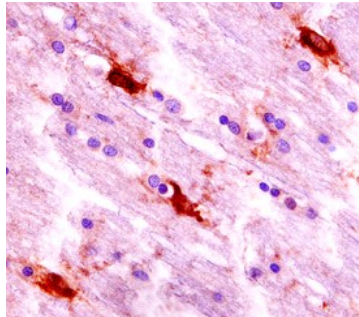
Species Reactivity	Human
Specificity	Detects human S100A16 in direct ELISAs and Western blots. In direct ELISAs, this antibody shows approximately 20% cross-reactivity with recombinant mouse S100A16 and less than 1% cross-reactivity with recombinant human (rh) S100A13 and rhS100B.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human S100A16 Ser2-Ser103 Accession # Q96FQ6
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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human S100A16 by Western Blot. Western blot shows lysates of Nalm-6 human Pre-B acute lymphocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human S100A16 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5180) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for S100A16 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using <i>Immunoblot Buffer Group 8</i>.</p>	<p>Immunohistochemistry</p>  <p>S100A16 in Human Brain. S100A16 was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using 10 µg/mL Sheep Anti-Human S100A16 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5180) overnight at 4 °C. Tissue was stained with the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). View our protocol for <i>Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</i>.</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	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

S100A16 (also S100F) is a 12 kDa member of the S100 family, EF-hand superfamily of Ca-binding proteins. By Northern blot, S100A16 is found in multiple tissue types; in brain, it is specifically found in astrocytes. Intracellularly, S100A16 is both nuclear and cytoplasmic and apparently exists as a homodimer, trimer and tetramer.