

DESCRIPTION

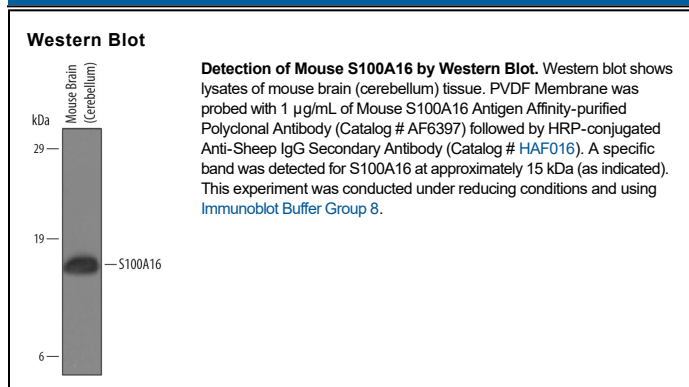
Species Reactivity	Mouse
Specificity	Detects mouse S100A16 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human S100A16 is observed, and less than 1% cross-reactivity with recombinant mouse S100A4, recombinant human (rh) S100A2, and rhS100A10 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E.coli-derived recombinant mouse S100A16 Ala2-Ser124 Accession # NP_080692
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

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

Mouse S100A16 (S100 calcium-binding protein A16; also S100F and AAG13) is a 15-18 kDa member of the S100 family of calcium-binding proteins. It is found in both cytoplasm (when Ca is high) and nucleus (when Ca is low), and its expression appears to be restricted to astrocytes found in select areas of the brain. S100A16 is 124 amino acids (aa) in length. Based on human, it will contain an N-terminal non-Ca-binding EF-hand domain (aa 12-47), a C-terminal Ca-binding EF-hand domain (aa 54-89), and a putative FGF-1 binding site (aa 91-94). There is one potential myristoylation site (aa 54-59) and a phosphorylation site at Ser124. S100A16 will homodimerize, and perhaps form higher order oligomers. Full length mouse S100A16 shares 95% aa identity with rat S100A16. Relative to human S100A16, mouse S100A16 possesses a 21 aa Glu/Gln-rich insertion after Glu98 that reduces the shared aa homology between mouse and human S100A16 to 72% aa identity.