

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MEGF9 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human MEGF9 Ala36-Asn514 Accession # Q9H1U4
<b>Formulation</b>	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.

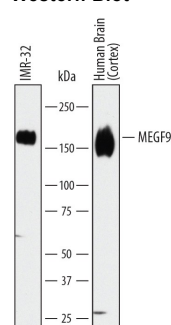
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

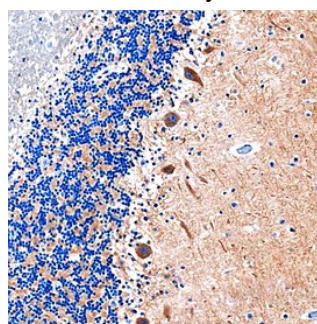
## DATA

### Western Blot



**Detection of Human MEGF9 by Western Blot.** Western blot shows lysates of IMR-32 human neuroblastoma cell line and human brain (cortex) tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human MEGF9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7768) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for MEGF9 at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 1](#).

### Immunohistochemistry



**MEGF9 in Human Brain.** MEGF9 was detected in immersion fixed paraffin-embedded sections of human brain (cerebellum) using Sheep Anti-Human MEGF9 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7768) at 1 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counter-stained with hematoxylin (blue). Specific staining was localized to Purkinje neurons. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

MEGF9 (Multiple EGF-like domains protein 9; also EGF-like protein 5) is a 63 kDa (predicted) novel transmembrane glycoprotein that shares some homology to β-chains of laminin. It is expressed by hepatocytes, cerebellar Purkinje cells, Schwann cells, keratinocytes and intestinal epithelium. MEGF9 is suggested to participate in cell motility, and its absence correlates with tumor cell migration. Mature human MEGF9 is 572 amino acids (aa) in length. It is a single span type I transmembrane protein that contains a 484 aa extracellular region (aa 31-514) plus a 68 aa C-terminal cytoplasmic domain. The extracellular region possesses a lengthy Pro-rich region (aa 55-200), followed by five EGF-like domains (aa 204-451). MEGF9 may run at approximately 160 kDa in SDS-PAGE, suggesting either heavy glycosylation or dimerization. Over aa 36-514, human MEGF9 shares 76% aa sequence identity with mouse MEGF9.