

#### DESCRIPTION

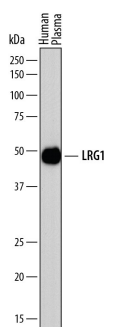
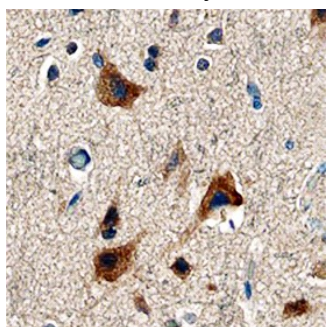
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human LRG1 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived recombinant human LRG1 Val36-Gln347 Accession # P02750
<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 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>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

<p><b>Western Blot</b></p>  <p><b>Detection of Human LRG1 by Western Blot.</b> Western blot shows human plasma. PVDF membrane was probed with 2 µg/mL of Sheep Anti-Human LRG1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7890) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for LRG1 at approximately 48-50 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>LRG1 in Human Brain.</b> LRG1 was detected in immersion fixed paraffin-embedded sections of human brain (cortex) using Sheep Anti-Human LRG1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7890) at 3 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neurons. View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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

LRG-1 (Leucine-Rich alpha-2-Glycoprotein 1; also LRHG [in rodent]) is a 45-55 kDa, monomeric, variably glycosylated, secreted protein member of the leucine-rich repeat family of molecules. It should not be confused with either LRIG-1/ Leucine-Rich repeats and Ig-like domains-1, or LRG1/LIM-RhoGap protein 1. LRG-1 has a limited expression pattern, being associated with neutrophils, neutrophil precursors (myelocytes; metamyelocytes), astrocytes, HEV (in mice), hepatocytes and select tumor cells. LRG-1 is reported to bind multiple molecules, including TGF-β, extracellular cytochrome C, and fibronectin plus collagen IV of the ECM. Functions associated with this binding include granulocyte maturation, protection from apoptosis, and cell migration. Mature human LRG-1 is 312 amino acids (aa) in length (aa 35-347). Depending upon the source, LRG-1 has been described as having either thirteen 24 aa leucine-rich repeats (LRRs), or eight LRRs spanning aa 93-282 coupled to a C-terminal LRR. Variable O- and N-based glycosylation accounts for the variability in MW. Mature human LRG-1 shares 66% aa sequence identity with mouse LRG-1.