

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human LRG1 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human LRG1 Val36-Gln347 Accession # P02750
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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