

#### 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<br>Val36-Gln347<br>Accession # P02750 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                          |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

#### PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.