

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects endogenous human LARG in Western blots.                                                                                                                                                                                                                             |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human LARG<br>Ile154-Leu575<br>Accession # Q9NZN5                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

## 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

LARG (Leukemia-associated RhoGEF, also known as Rho guanine nucleotide exchange factor 12) is a 173 kDa member of the DH-domain containing RhoGEF family of molecules. It is ubiquitously expressed, and known to interact with semaphorin-activated B class plexins, thereby activating Rho-dependent pathways. Human LARG is 1544 amino acids (aa) in length. It contains one PZD domain that binds to plexin (aa 72-151), an RGSL region (aa 368-558), and a RhoGEF domain (aa 788-975). There are at least two potential splice forms. One shows a deletion of aa 48-66 with an 8 aa poly-Lys substitution for the C-terminal 960 amino acids. A second shows an insertion of 9 aa between Thr1093 and Asp1094, accompanied by a 6 aa substitution for the C-terminal 131 amino acids. Over aa 154-575, human LARG is 90% aa identical to mouse LARG.

## PRODUCT SPECIFIC NOTICES

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