

DESCRIPTION

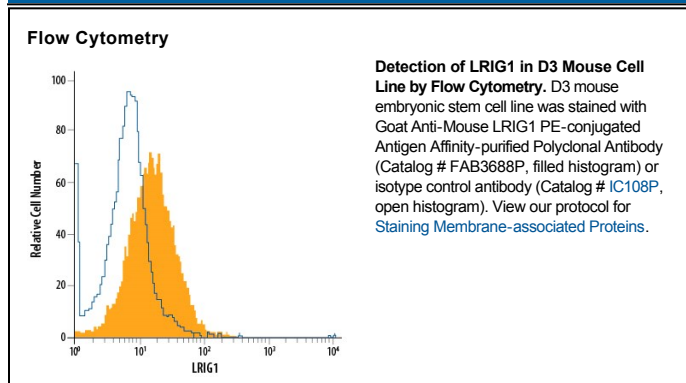
Species Reactivity	Mouse
Specificity	Detects mouse LRIG1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human LRIG3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse LRIG1 Ala37-Thr794 Accession # P70193
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	10 μ L/ 10^6 cells	See Below

DATA



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

LRIG1 (leucine-rich repeats and Ig-like domains-1; also LIG-1) is an approximately 130-145 kDa glycoprotein that belongs to the LRIG gene family. It is widely expressed, and appears on the surface of prostatic epithelium, endothelial cells, vascular and visceral smooth muscle, mammary epithelium, cardiac muscle, keratinocytes and neurons. LRIG1 is believed to negatively regulate the ErbB family of receptors. In particular, and in a ligand-independent manner, LRIG1 complexes with all four ErbBs, promoting their ubiquitination and decreasing their number. Alternatively, LRIG1 is suggested to bind to the ErbBs, preventing their dimerization and signal transduction. Mature mouse LRIG1 is a 1057 amino acid (aa) type I transmembrane protein. It contains a large 762 amino acid (aa) extracellular domain (ECD) (aa 35-795) plus a 274 aa cytoplasmic region. The ECD contains 17 LRRs (aa's 35-491) and three C2-type Ig-like domains (aa's 497-781). These two domain types are each sufficient for EGFR binding. There one potential alternative splice form that a deletion of aa 875-923. The LRIG1 ECD undergoes proteolysis, generating 90-105 and 60-70 kDa soluble fragments. Over aa 37-794, human LRIG1 shares 97% and 90% aa sequence identity with rat and human LRIG1, respectively.