**DESCRIPTION**

**Species Reactivity** Human

**Specificity** Detects human Follistatin-related Gene Protein/FLRG in ELISAs and Western blots. In sandwich immunoassays, less than 1% cross-reactivity with recombinant mouse FLRG is observed.

**Source** Polyclonal Goat IgG

**Purification** Antigen Affinity-purified

**Immunogen** Mouse myeloma cell line NS0-derived recombinant human Follistatin-related Gene Protein/FLRG Met27-Val263

**Accession #** O95633

**Formulation** Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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**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**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Western Blot</th>
<th>ELISA Capture</th>
<th>ELISA Detection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recombinant Human Follistatin-related Gene Protein/FLRG (Catalog # 1288-F3)</td>
<td>0.1 µg/mL</td>
<td>2-8 µg/mL</td>
<td>0.1-0.4 µg/mL</td>
</tr>
<tr>
<td>Human Follistatin-related Gene Protein/FLRG Antibody (Catalog # MAB1288)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Human Follistatin-related Gene Protein/FLRG Biotinylated Antibody (Catalog # BAF1288)</td>
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<tr>
<td>Recombinant Human Follistatin-related Gene Protein/FLRG (Catalog # 1288-F3)</td>
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</tbody>
</table>

**PREPARATION AND STORAGE**

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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**BACKGROUND**

Follistatin-related gene protein (FLRG), also known as follistatin-like 3 (FSTL3) is a glycoprotein belonging to the follistatin-module protein family. Human FLRG cDNA encodes a 263 amino acid (aa) residue protein with a putative 26 aa signal peptide, an N-terminal domain, two cysteine-rich follistatin-like domains (FS) and a C-terminal acidic domain. Compared to follistatin, FLRG lacks the third FS domain found in follistatin. In addition, FLRG also lacks the heparin-binding domain found within the first amino-terminal FS domain of follistatin. Mouse and human FLRG share approximately 83% aa sequence homology. Like follistatin, FLRG has been shown to bind and inhibit the activities of TGF-β family ligands including activin, BMP-2, -6, -7 and GDF-8/myostatin. While both FLRG and follistatin are located in a wide and overlapping range of adult and fetal tissue, their sites of peak expression differ: FLRG most highly in heart, lung, kidney, placenta and testis, while follistatin is highest in ovary and pituitary. The expression of FLRG is upregulated by TGF-β and activin signaling through Smad proteins. Although FLRG is a secreted protein in many cell types, it has also been localized to the nuclear compartment in HeLa, 293 and CHO cells (1-5).

**References:**