

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human FSH R in direct ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 626717
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human FSH R Accession # M65085
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**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>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
<b>Neutralization</b>	Measured by its ability to neutralize FSH α/β-induced cAMP production in the HEK293 human embryonic kidney cell line transfected with human FSH R. Morgenthaler, N.G. <i>et al.</i> (1998) <i>Horm. Metab. Res.</i> <b>30</b> :162. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.02-0.1 µg/mL in the presence of 1 ng/mL Recombinant Human FSH α/β.	

**DATA**

**Flow Cytometry**

**Detection of FSH R in HEK293 Human Cell Line Transfected with Human FSH R and eGFP by Flow Cytometry.** HEK293 human embryonic kidney cell line transfected with (A) human FSH R or (B) irrelevant protein, and eGFP was stained with Mouse Anti-Human FSH R Monoclonal Antibody (Catalog # MAB65591) followed by APC-conjugated Goat anti-Mouse Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB003). View our protocol for [Staining Membrane-associated Proteins](#).

**Neutralization**

**cAMP Production Induced by FSH α/β and Neutralization by Human FSH R Antibody.** Recombinant Human FSH α/β (Catalog # 5925-FS) induces cAMP production in the HEK293 human embryonic kidney cell line transfected with human FSH R in a dose-dependent manner (orange line), as measured by the cAMP Parameter Assay Kit (Catalog # KGE002B). cAMP production elicited by Recombinant Human FSH α/β (1 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human FSH R Monoclonal Antibody (Catalog # MAB65591). The ND<sub>50</sub> is typically 0.02-0.1 µg/mL.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Follicle stimulating hormone receptor (FSH R), also called follitropin receptor or LGR1, is a 695 amino acid (aa), ~87 kDa 7-transmembrane receptor of the leucine-rich repeat glycoprotein hormone receptor subfamily of GPCRs. It is expressed by ovarian granulosa cells and is essential for ovarian follicle maturation. In the male, it is expressed by Sertoli cells and plays a minor role in male fertility. Human FSH R shares 86% aa sequence identity with mouse and rat FSH R within the 349 aa N-terminal extracellular domain. A 754 aa isoform contains an inserted sequence at aa 75.