

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human GPR115 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human GPR30, 49, 56, 111, 114, 124, or 125 is observed.                                                                                                     |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 527003                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human GPR115<br>Ser22-Ala347<br>Accession # Q8IZF3                                                                                                                                                                  |
| <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

**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

GPR115 is a member of the LN-7TM family of adhesion-type 7-transmembrane (TM) G-protein coupled receptors (GPCR) that show a long extracellular N-terminus (1, 2). The 695 amino acid (aa) human GPR115 sequence predicts a 21 aa signal sequence, a 385 aa N-terminal extracellular domain (ECD), seven TM regions separated by 6-24 aa intracellular and extracellular regions, and a 40 aa cytoplasmic tail. Like other LN-7TM members, the ECD contains a highly glycosylated mucin-like stalk that is predicted to function in adhesion. This is followed by a cysteine-rich GPCR proteolytic cleavage site (GPS) (1). GPS domains, which have been described in other 7TM proteins including ETL, GPR126, HE6, and Latrophilin-1, are cleavage sites for processing proteins into two subunits (3-7). Within the N-terminal region that ends with the predicted cleavage site (aa 22-347), human GPR115 shares 58% aa sequence identity with the corresponding region of mouse and rat GPR115. GPR115 was identified from expressed sequence tags (ESTs) found in pregnant uterus, breast, and the genitourinary tract (1).

## PRODUCT SPECIFIC NOTICES

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