

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GPR111 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant human (rh) GPR30, rhGPR56, rhGPR114, rhGPR115, rhGPR124, and rhGPR125 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human GPR111 Cys19-Ser375 Accession # NP_722581
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

GPR111 (G-protein coupled receptor 111; also PRG20) is a 71 kDa (predicted), seven transmembrane (TM) member of the GPR-2 family, LN-7TM subfamily of molecules. It is reportedly expressed in lung, mammary gland and diencephalon. Human GPR111 is 642 amino acids (aa) in length. It contains an extended N-terminal extracellular region with a mucin like stalk (aa 1-383), followed by a series of seven TM domains and a short C-terminal cytoplasmic tail. The N-terminus possesses a GPS (GPCR proteolytic site) (aa 324-368) that likely generates a soluble cleavage product. GPR111 is considered an adhesion-type GPCR, and as such, is expected to form dimers, if not oligomers. There is one potential splice variant for GPR111. It shows a 92 aa substitution for aa 1-24 coupled to a 19 aa substitution for aa 622-642. Over aa 19-375, human GPR111 shares 68% aa identity with mouse GPR111.

PRODUCT SPECIFIC NOTICES

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