Human GPER/GPR30 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 730737

Catalog Number: FAB5534S

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GPER in direct ELISAs.
Source	Monoclonal Mouse IgG_1 Clone # 730737
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human GPER Met1-Ser62 Accession # Q99527
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.*

Immunohistochemistry	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

GPER (G-Protein Coupled Estrogen Receptor 1; also GPR30, DRY12 and mER) is a 44 kDa, seven transmembrane (TM) member of the GPR-1 family of molecules. It is expressed on/in neurons, monocytes and endothelial cells. Its exact location is unclear; it has been described in both the cell membrane and ER. Human GPER is 375 amino acids (aa) in length. It contains an N-terminal extracellular region (aa 1-62), a series of seven TM domains (aa 63-327), and a C-terminal cytoplasmic tail (aa 328-375). The initial function attributed to GPER was that of a membrane receptor for estrogen. There are two potential splice variants for GPER. One shows a deletion of aa 32-49, while a second shows a 99 aa substitution for aa 308-375. Over aa 1-62, human GPER shares 57% aa identity with mouse GPER.

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