

Human GPR115 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 527018 Catalog Number: FAB54371V

100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human GPR115 in diect ELISAs.		
Source	Monoclonal Mouse IgG ₁ Clone # 527018		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human GPR115 Ser22-Ala347 Accession # Q8IZF3		
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.			
	Recommended	Sample	
	Concentration		
Flow Cytometry	0.25-1 μg/10 ⁶ cells	HEK293 Human Cell Line Transfected with Human GPR115 and eGFP	

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).

References:

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- 4. Moriguchi, T. *et al.* (2004) Genes Cells **9**:549.
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- 7. Krasnoperov, V. et al. (2002) J. Biol. Chem. 277:46518.

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