

Human GPR115 Antibody

Monoclonal Mouse IgG₁ Clone # 527003 Catalog Number: MAB5437

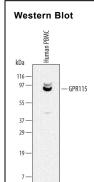
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human GPR115 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human GPR30, 49, 56, 111, 114, 124, or 125 is observed.	
Source	Monoclonal Mouse IgG ₁ Clone # 527003	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human GPR115 Ser22-Ala347 Accession # Q8IZF3	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below

DATA



Detection of Human GPR115 by Western Blot.

Western blot shows lysates of human peripheral blood mononuclear cells (PBMC). PVDF Membrane was probed with 2 μ g/mL of Mouse Anti-Human GPR115 Monoclonal Antibody (Catalog # MAB5437) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for GPR115 at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	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	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months -20 to -70 °C under sterile conditions after reconstitution.	

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:

- 1. Fredriksson, R. et al. (2002) FEBS Lett. 531:407.
- 2. Bjarnadottir, T.K. et al. (2004) Genomics 84:23.
- 3. Nechiporuk, T. et al. (2001) J. Biol. Chem. 276:4150.
- 4. Moriguchi, T. et al. (2004) Genes Cells 9:549.
- 5. Kierszenbaum, A.L. (2003) Mol. Reprod. Dev. 64:1.
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- 7. Krasnoperov, V. et al. (2002) J. Biol. Chem. 277:46518.

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