RD SYSTEMS a biotechne brand

Human Latrophilin 2/LPHN2 Antibody

Monoclonal Mouse IgG_{2B} Clone # 1030202 Catalog Number: MAB105881

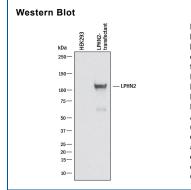
DESCRIPTION

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Latrophilin 2/LPHN2 in direct ELISAs.	
Source	Monoclonal Mouse IgG _{2B} Clone # 1030202	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Human Latrophilin 2/LPHN2 synthetic peptide Accession # O95490	
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 Ivophilized or as a 0.2 μm filtered solution in PBS.	

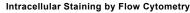
APPLICATIONS

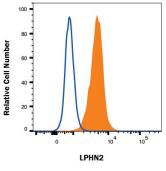
	Recommended Concentration	Sample
Western Blot	1 µg/mL	HEK293T human embryonic kidney cell line transfected with human Latrophilin 2/LPHN2
Flow Cytometry	0.25 μg/10 ⁶ cells	HEK293 Human Cell Line transfected with Human LPHN2
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



Detection of Human Latrophilin 2/LPHN2 by Western Blot. Western blot shows lysates of HEK293T human embryonic kidney cell line either mock transfected or transfected with human Latrophilin 2/LPHN2. PVDF membrane was probed with 1 $\mu\text{g/mL}$ of Mouse Anti-Human Latrophilin 2/LPHN2 Monoclonal Antibody (Catalog # MAB105881) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Latrophilin 2/LPHN2 at approximately 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.





Detection of LPHN2 in HEK293 Human Cell Line transfected with Human LPHN2 by Flow Cytometry. HEK293 Human Cell Line transfected with Human LPHN2 was stained with Mouse Anti-Human LPHN2 Monoclonal Antibody (Catalog # MAB105881, filled histogram) or isotype control antibody (Catalog # MAB10041, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). Staining was performed using our Staining Intracellular Molecules protocol.

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. 	

BACKGROUND

Latrophilin 2 (LPHN2) is a G-protein coupled receptor which functions in both cell adhesion and signal transduction. Latrophilin represents a phylogenetically conserved family of receptors which has an unusual structure consisting of two fragments that are produced by proteolytic cleavage of the parental molecule and behave independently in the plasma membrane. LPHN2 is a ubiquitous receptor for alpha-latroxin which is a protein toxin in black widow spider venom that is toxic to vertebrates.

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