

Purified anti-Wntless (GPR177) Antibody

Catalog# / Size	655902 / 100 µg
Clone	YJ5
Regulatory Status	RUO
Other Names	G Protein-Coupled Receptor 177 (GPR177), WLS, Protein Wntless Homolog, Putative NF-Kappa-B-Activating Protein 373, C1orf139, Evi
Isotype	Mouse IgG1, κ
Description	Wnt signaling plays important roles in embryonic development and cancer formation. Wntless (GPR177) is a putative G-protein coupled receptor that regulates Wnt's trafficking and secretion. It can regulate the expression, subcellular location, binding, and organelle-specific association of Wnt proteins. In mammals, Wntless is mainly expressed in submucosa, muscle, ganglia, and nerve cells of the large intestines. Overexpression of Wntless may activate the NF-κB signaling pathway in cancer cells.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human Wntless protein
Formulation	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration	0.5 mg/mL
Storage & Handling	Upon receipt, store undiluted between 2°C and 8°C.
Application	WB - Quality tested ICC, IP - Reported in the literature, not verified in house
Recommended Usage	Each lot of this antibody is quality control tested by Western blotting . For Western blotting, the suggested use of this reagent is 0.5 - 2.0 µg per ml. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes	The clone recognizes a ~65 kD protein of unidentified origin. Additional reported applications (for relevant formats) include: immunoprecipitation (IP) ¹ and immunocytochemistry (ICC) ¹
Application References (PubMed link indicates BioLegend citation)	1. Coombs GS, <i>et al.</i> 2010. <i>J. Cell Sci.</i> 123:3357. (ICC, IP)
Product Citations	1. Glaeser K, <i>et al.</i> 2018. <i>EMBO J.</i> 37:. PubMed 2. Wesslowski J, <i>et al.</i> 2020. <i>J Biol Chem.</i> 295:8759. PubMed
RRID	AB_2562228 (BioLegend Cat. No. 655902)

Antigen Details

Structure	Three isoforms with 450 to 543 amino acids, predicted molecular weight of 45-65 kD; structure similar to the member of G-protein coupled receptor (GPCR) superfamily, with conserved YXXΦ endocytotic motif
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Distribution	Cytoplasmic organelles
Function	Regulates Wnt protein sorting and secretion; it plays a key role in the regulation of expression, subcellular localization, binding and organelle-specific association of Wnt proteins
Interaction	Interacts with WNT1, WNT3, WNT5A, and Vps35
Ligand/Receptor	Wnt
Biology Area	Angiogenesis, Apoptosis/Tumor Suppressors/Cell Death, Cell Biology, Cell Cycle/DNA Replication, DNA Repair/Replication, Immunology, Signal Transduction
Antigen References	<ol style="list-style-type: none"> 1. Hardin J and King RS, <i>et al.</i> 2008. <i>Curr. Opin. Genet. Dev.</i> 18:362. 2. Wang LT, <i>et al.</i> 2012. <i>Kaohsiung J. Med. Sci.</i> 28:355. 3. Cornett B, <i>et al.</i> 2013. <i>Dev. Biol.</i> 2013. 379:38. 4. Das S, <i>et al.</i> 2012. <i>Front. Biol. (Beijing)</i>. 7:587. 5. Stefater JA 3rd, <i>et al.</i> 2013. <i>Blood</i> 121:2574.
Gene ID	79971

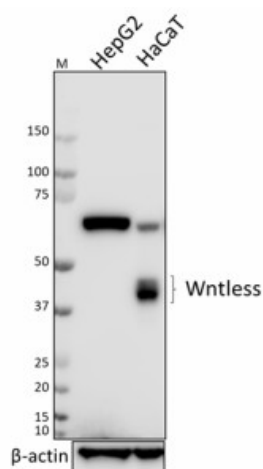
Related Protocols

[Western Blotting Protocol](#)

Other Formats

Purified anti-Wntless (GPR177)

Product Data



Whole cell extracts (15 µg protein) from HepG2 (negative control) or HaCaT cells were resolved by 4-12% Bis-Tris gel electrophoresis, transferred to a nitrocellulose membrane, and probed with 0.5 µg/mL (1:1000 dilution) of Purified anti-Wntless (GPR177) Antibody, clone YJ5, overnight at 4°C. Proteins were visualized by chemiluminescence detection using HRP goat anti-mouse IgG Antibody (Cat. No. 405306) at a 1:3000 dilution. Direct-Blot™ HRP anti-β-Actin Antibody (Cat. No. 664804) was used as a loading control at a 1:25000 dilution (lower). Lane M: Molecular Weight marker.

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