

GPRASP1 Antibody

Catalog # ASC11863

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q5JY77
Other Accession	NP_001171656 , 296080706
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	156865
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	GPRASP1 antibody can be used for detection of GPRASP1 by Western blot at 1 - 2 μ g/ml. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	9737
Other Names	G-protein coupled receptor-associated sorting protein 1, GASP-1, GPRASP1, GASP, KIAA0443
Target/Specificity	GPRASP1; GPRASP1 antibody is human and mouse reactive. This antibody is predicted to not cross-react with GPRASP2.
Reconstitution & Storage	GPRASP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	GPRASP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GPRASP1
Synonyms	GASP, KIAA0443
Function	Modulates lysosomal sorting and functional down-regulation of a variety of G protein-coupled receptors. Targets receptors for degradation in lysosomes via its interaction with BECN2.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in the brain, with lower expression in medulla, spinal cord and substantia nigra

Background

The G protein-coupled receptor associated sorting protein 1 (GPRASP1) is a member of the GPRASP family and is thought to modulate lysosomal sorting and functional down-regulation of a variety of G-protein coupled receptors (1,2). GPRASP1 interacts with receptors such as the D2 dopamine receptor (DRD2), delta opioid receptor (OPRD1), beta-2 adrenergic receptor (ADRB2), D4 dopamine receptor (DRD4) and cannabinoid 1 receptor (CNR1) and targets these proteins for degradation in lysosomes (2). Recently, it has been shown that increased GPRASP1 levels may act as a potential biomarker for breast cancer (3).

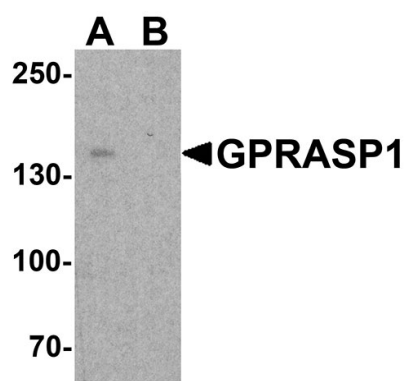
References

Simonin F, Karcher P, Boeuf JJ, et al. Identification of a novel family of G protein-coupled receptor associated proteins. *J. Neurochem.* 2004; 89:766-75.

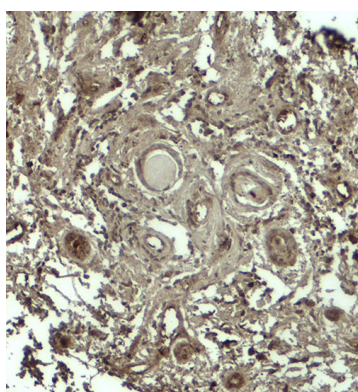
Moser E, Kargl J, Whistler JL, et al. G protein-coupled receptor-associated sorting protein 1 regulates the postendocytic sorting of seven-transmembrane-spanning G protein-coupled receptors. *Pharmacology* 2010; 86:22-9.

Tuszynski GP, Rothman VL, Zheng X, et al. G-protein coupled receptor-associated sorting protein 1 (GASP-1), a potential biomarker in breast cancer. *Exp. Mol. Pathol.* 2011; 91:608-13.

Images

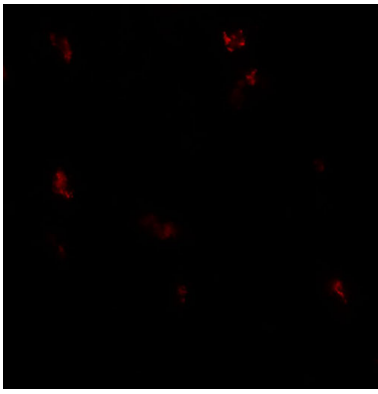


Western blot analysis of GPRASP1 in A-20 cell lysate with GPRASP1 antibody at 1 μ g/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of GPRASP1 in human breast carcinoma tissue with GPRASP12 antibody at 5 μ g/ml.

Immunofluorescence of GPRASP1 in human breast carcinoma tissue with GPRASP1 antibody at 20 μ g/ml.



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