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Anti-GUCY1B2 Antibody

Catalog # AP51252

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O75343
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70368

Additional Information

Other Names	Guanylate cyclase soluble subunit beta-2; GCS-beta-2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GUCY1B2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

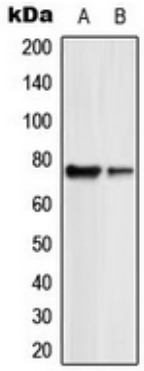
Protein Information

Name	GUCY1B2
Function	Probably a non-functional pseudogene. In mouse, the functional ortholog acts as a soluble guanylate cyclase that senses low environmental oxygen in sensory neurons of the main olfactory epithelium.
Cellular Location	Cell projection, dendrite {ECO:0000250|UniProtKB:Q8BXH3}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:P22717}
Tissue Location	Expressed in gastric signet ring cell carcinoma, but not in the normal stomach.

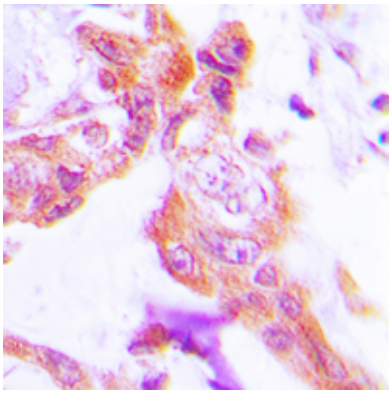
References

Behrends S.,et al.Biochem. Biophys. Res. Commun. 271:64-69(2000).
Behrends S.,et al.Genomics 55:126-127(1999).

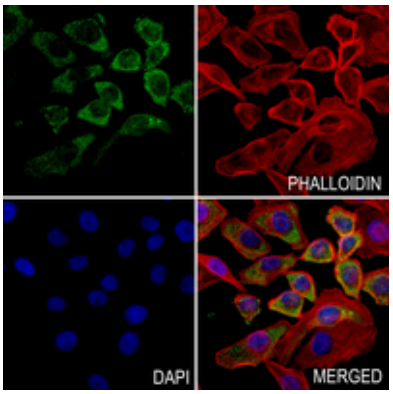
Images



Western blot analysis of GUCY1B2 expression in HL60 (A), Jurkat (B) whole cell lysates. (Predicted band size: 70 kD; Observed band size: 70 kD)



Immunohistochemical analysis of GUCY1B2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of GUCY1B2 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.