Product Datasheet

GNA13 Rabbit mAb

Catalog No: #52296

Package Size: #52296-1 50ul #52296-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

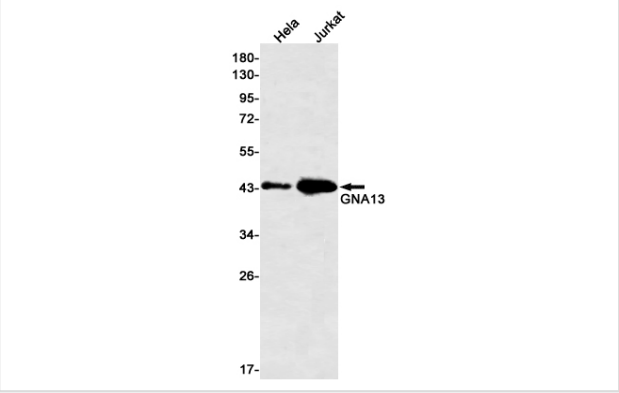
Description

Product Name	GNA13 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S08-4F2
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human G protein alpha 13
Conjugates	Unconjugated
Modification	Unmodification
Other Names	guanine nucleotide binding protein (G protein), alpha 13;G13
Accession No.	Swiss-Prot:Q14344GeneID:10672
Uniprot	Q14344
GeneID	10672
Calculated MW	Calculated MW: 44 kDa; Observed MW: 44 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

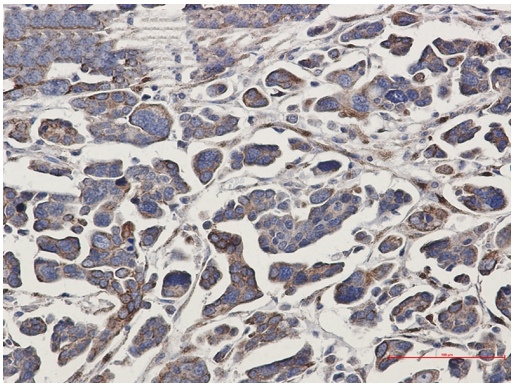
Application Details

WB: 1/1000-1/5000; IHC: 1/200

Images



Western blot detection of GNA13 [KO Validated] in Hela,Jurkat cell lysates using GNA13 Rabbit mAb [KO Validated](1:500 diluted).Predicted band size:44kDa.Observed band size:44kDa.



Immunohistochemistry of G protein alpha 13 in paraffin-embedded Human Cholangiocarcinoma using G protein alpha 13 Rabbit mAb at dilution 1/50

Background

Swiss-Prot Acc.Q14344.Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:15240885, PubMed:16787920, PubMed:16705036, PubMed:27084452). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (PubMed:15240885, PubMed:12515866). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) . Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway (PubMed:16787920, PubMed:16705036, PubMed:27084452). Inhibits CDH1-mediated cell adhesion in process independent from Rho activation (PubMed:11976333).

Note: This product is for in vitro research use only