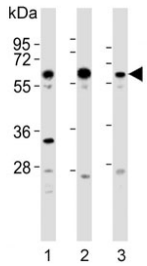
GRK5 Antibody / G protein-coupled receptor kinase 5 (F54439)

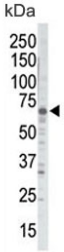
Catalog No.	Formulation	Size
F54439-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54439-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

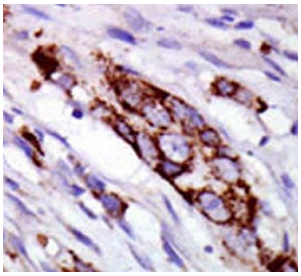
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P34947
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25
Limitations	This GRK5 antibody is available for research use only.



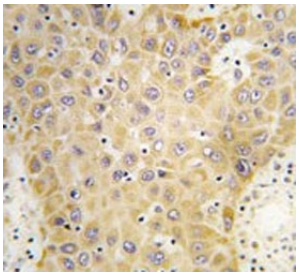
Western blot testing of human 1) HeLa, 2) HepG2 and 3) Ramos lysate with GRK5 antibody. Predicted molecular weight ~68 kDa.



Western blot testing of mouse brain lysate with GRK5 antibody. Predicted molecular weight ~68 kDa.



IHC testing of FFPE human breast cancer tissue with GRK5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human hepatocarcinoma tissue with GRK5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK).

Application Notes

The stated application concentrations are suggested starting points. Titration of the GRK5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 559-590 from the human protein as used as the immunogen for the GRK5 antibody.

Storage

Aliquot the GRK5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.