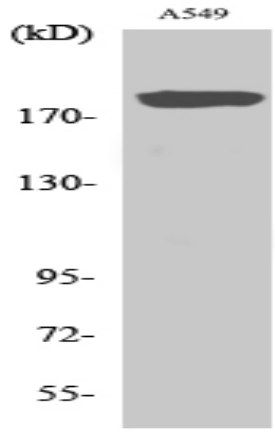
Best Tools for immunology Research

BIG2 Polyclonal Antibody

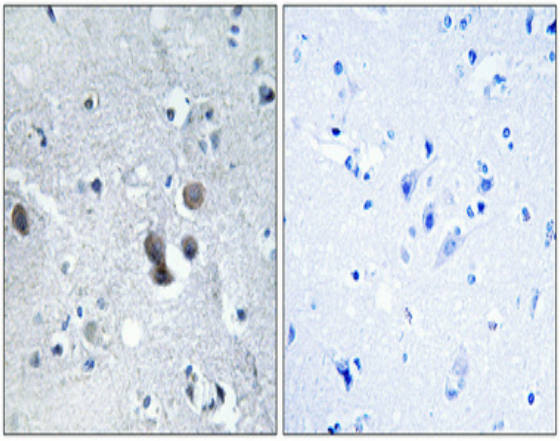
Catalog No :	YT0489
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	BIG2
Fields :	>>Endocytosis
Gene Name :	ARFGEF2
Protein Name :	Brefeldin A-inhibited guanine nucleotide-exchange protein 2
Human Gene Id :	10564
Human Swiss Prot No :	Q9Y6D5
Mouse Gene Id :	99371
Mouse Swiss Prot No :	A2A5R2
Rat Gene Id :	296380
Rat Swiss Prot No :	Q7TSU1
Immunogen :	The antiserum was produced against synthesized peptide derived from human ARFGEF2. AA range:1491-1540
Specificity :	BIG2 Polyclonal Antibody detects endogenous levels of BIG2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	210kD
Background :	ADP-ribosylation factors (ARFs) play an important role in intracellular vesicular trafficking. The protein encoded by this gene is involved in the activation of ARFs by accelerating replacement of bound GDP with GTP and is involved in Golgi transport. It contains a Sec7 domain, which may be responsible for its guanine-nucleotide exchange activity and also brefeldin A inhibition. [provided by RefSeq, Jul 2008],
Function :	disease:Defects in ARFGEF2 are the cause of autosomal recessive periventricular nodular heterotopia type 2 (PVNH2) [MIM:608097]; also called periventricular heterotopia with microcephaly autosomal recessive. PVNH2 is an autosomal recessive form characterized by microcephaly (small brain), severe developmental delay and recurrent infections. No anomalies extrinsic to the central nervous system, such as dysmorphic features or grossly abnormal endocrine or other conditions, are associated with PVNH2.,enzyme regulation:Inhibited by brefeldin A.,function:Promotes guanine-nucleotide exchange on ARF1, ARF5 and ARF6. Promotes the activation of ARF1/ARF5/ARF6 through replacement of GDP with GTP.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 SEC7 domain.,tissue specificity:Expressed in placenta, lung, heart, brain, kidney and pancreas.,
Subcellular Location :	Cytoplasm. Membrane. Golgi apparatus. Cytoplasm, perinuclear region. Golgi apparatus, trans-Golgi network . Endosome . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell projection, dendrite . Cytoplasmic vesicle . Cell junction, synapse . Cytoplasm, cytoskeleton . Translocates from cytoplasm to membranes upon cAMP treatment. Localized in recycling endosomes.
Expression :	Expressed in placenta, lung, heart, brain, kidney and pancreas.
Sort :	2693
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

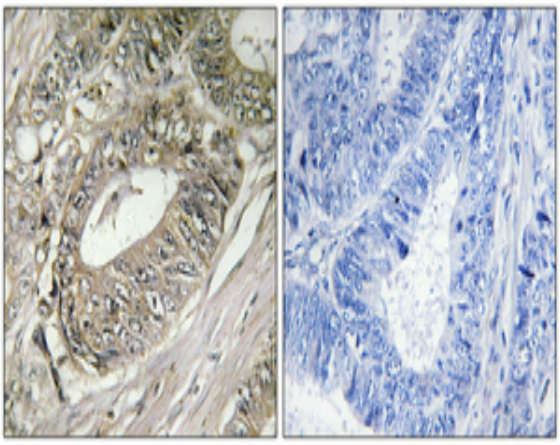
Products Images



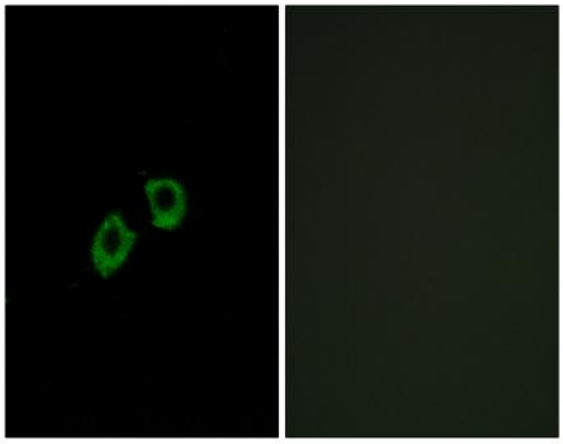
Western Blot analysis of various cells using BIG2 Polyclonal Antibody



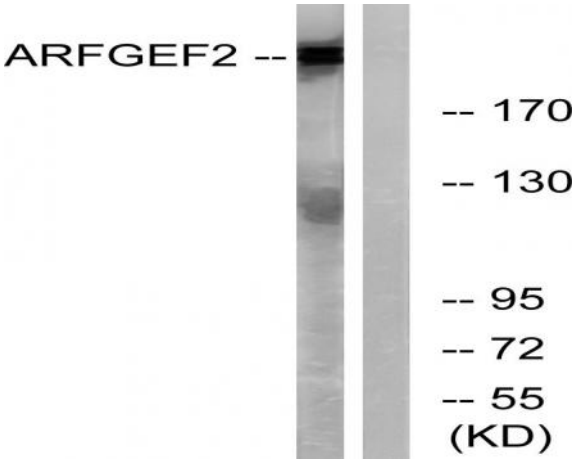
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemical analysis of paraffin-embedded Human colon cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of A549 cells, using ARFGEF2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from A549 cells, using ARFGEF2 Antibody. The lane on the right is blocked with the synthesized peptide.