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Arhgef4 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14374

Product Information

Application	WB
Primary Accession	Q7TNR9
Other Accession	NM_183019, NP_898840
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56679

Additional Information

Gene ID	226970
Alias Symbol	9330140K16Rik, Asef, ENSMUSG00000070955
Other Names	Rho guanine nucleotide exchange factor 4, APC-stimulated guanine nucleotide exchange factor, Asef, Arhgef4, Kiaa1112
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Arhgef4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Arhgef4 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

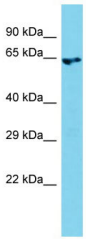
Name	Arhgef4
Synonyms	Kiaa1112
Function	Acts as a guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Binding of APC may activate RAC1 GEF activity. The APC-ARHGEF4 complex seems to be involved in cell migration as well as in E-cadherin-mediated cell-cell adhesion (By similarity). Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.

Cellular Location	Cytoplasm. Note=Colocalized with APC in the synapse of olfactory glomerulus
Tissue Location	Expressed in colon epithelial cells. Highly expressed in CNS, including hippocampus, olfactory bulb and cerebellum Expression is aberrantly enhanced in most colorectal tumors

References

Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Okazaki N.,et al.DNA Res. 10:35-48(2003).
Okazaki N.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Kawasaki Y.,et al.Science 289:1194-1197(2000).
Kawasaki Y.,et al.EMBO Rep. 10:1355-1362(2009).

Images



Host: Rabbit
Target Name: Arhgef4
Sample Tissue: Mouse Testis lysates
Antibody Dilution: 1.0µg/ml

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