ARG64487
anti-MARK2 / PAR1 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes MARK2 / PAR1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow
Tested Application	WB
Specificity	This antibody is expected to recognise isoform c (NP_004945.4), isoform e (NP_001156768.1) and isoform f (NP_001156769.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	MARK2 / PAR1
Species	Human
Immunogen	C-QNGKDSTAPQR
Conjugation	Un-conjugated
Alternate Names	PAR1 homolog b; Serine/threonine-protein kinase MARK2; EC 2.7.11.26; EMK-1; MAP/microtubule affinity-regulating kinase 2; Par1b; EMK1; Par-1b; PAR1 homolog; EC 2.7.11.1; ELKL motif kinase 1; PAR-1

Application Instructions

Application table

Application	Dilution
WB	0.3 - 1 µg/ml

Application Note: WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

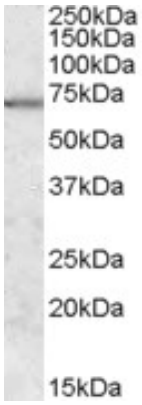
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 2011 Human Swiss-port # Q7KZI7 Human
Background	This gene encodes a member of the Par-1 family of serine/threonine protein kinases. The protein is an important regulator of cell polarity in epithelial and neuronal cells, and also controls the stability of microtubules through phosphorylation and inactivation of several microtubule-associating proteins. The protein localizes to cell membranes. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]
Research Area	Signaling Transduction antibody
Calculated Mw	88 kDa
PTM	Autophosphorylated. Phosphorylated at Thr-208 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39. Phosphorylation at Thr-208 by TAOK1 activates the kinase activity, leading to phosphorylation and detachment of MAPT/TAU from microtubules. Phosphorylation at Ser-212 by GSK3-beta (GSK3B) inhibits the kinase activity. Phosphorylation by CaMK1 promotes activity and is required to promote neurite outgrowth. Phosphorylation at Thr-596 by PRKCZ/aPKC in polarized epithelial cells inhibits the kinase activity and promotes binding to 14-3-3 protein YWHAZ, leading to relocation from cell membrane to cytoplasm.

Images



ARG64487 anti-MARK2 / PAR1 antibody WB image

Western blot: Human Brain (Cerebellum) lysate (35 µg protein in RIPA buffer) stained with ARG64487 anti-MARK2 / PAR1 antibody at 0.3 µg/ml dilution.