Datasheet for ABIN7116062

anti-MARK4 antibody

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Overview

Quantity:	100 µg
Target:	MARK4
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MARK4 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	MAP/microtubule affinity-regulating kinase 4
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	MARK4
Alternative Name:	MARK4 (MARK4 Products)
Background:	Synonyms:KIAA1860, MARKL1 Background:Serine/threonine-protein kinase(PubMed:15009667, PubMed:14594945, PubMed:23666762, PubMed:23184942). Phosphorylates the microtubule-associated protein MAPT(PubMed:14594945, PubMed:23666762). Also phosphorylates the microtubule-associated proteins MAP2 and MAP4(PubMed:14594945). Involved in regulation of

Target Details

	the microtubule network, causing reorganization of microtubules into bundles(PubMed:14594945, PubMed:25123532). Required for the initiation of axoneme extension during cilium assembly(PubMed:23400999). Regulates the centrosomal location of ODF2 and phosphorylates ODF2 in vitro(PubMed:23400999). Plays a role in cell cycle progression, specifically in the G1/S checkpoint(PubMed:25123532). Reduces neuronal cell survival(PubMed:15009667). Plays a role in energy homeostasis by regulating satiety and metabolic rate(By similarity). Promotes adipogenesis by activating JNK1 and inhibiting the p38MAPK pathway, and triggers apoptosis by activating the JNK1 pathway(By similarity). Phosphorylates mTORC1 complex member RPTOR and acts as a negative regulator of the mTORC1 complex, probably due to disruption of the interaction between phosphorylated RPTOR and the RRAGA/RRAGC heterodimer which is required for mTORC1 activation(PubMed:23184942).
Gene ID:	57787
UniProt:	Q96L34

Application Details

Application Notes:	IHC: 1:20-1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months