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Product datasheet for TA392789M

Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000~1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to Human GPR116.
Specificity:	MARK1/2/3/4 pAb detects endogenous levels of MARK1/2/3/4 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 85 kDa
Database Link:	Q9P0L2/Q7KZI7/P27448/Q96L34
Background:	Microtubule associated proteins regulate the stability of microtubules and control processes such as cell polarity/differentiation, neurite outgrowth, cell division and organelle trafficking. The MARK (MAP/microtubule affinity-regulating kinases) family (MARK1-4) of serine/threonine kinases was identified based on their ability to phosphorylate microtubule-associated proteins (MAPs) including tau, MAP2 and MAP4. MARK proteins phosphorylate MAPs within their microtubule binding domains, causing dissociation of MAPs from microtubules and increased microtubule dynamics. In the case of tau, phosphorylation has been hypothesized to contribute to the formation of neurofibrillary tangles observed in Alzheimer's disease. Overexpression of MARK leads to hyperphosphorylation of MAPs, morphological changes and cell death. The tumor suppressor kinase LKB1 phosphorylates MARK and the closely related AMP-kinases within their T-loops, leading to increased activity.

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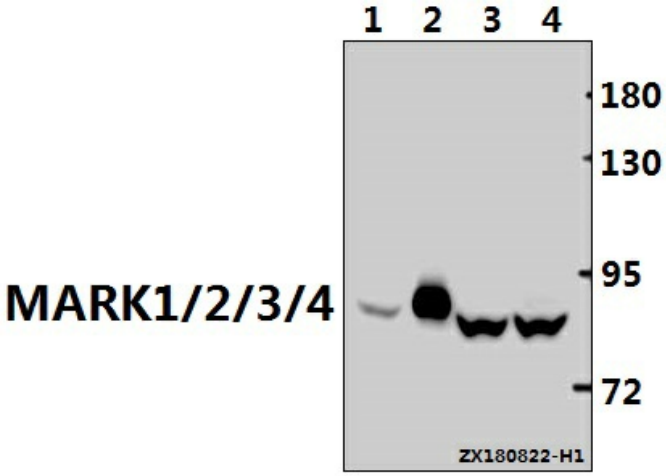
Synonyms: ADGRF5; Adhesion G protein-coupled receptor F5; G-protein coupled receptor 116; GPR116; KIAA0758

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of MARK1/2/3/4 (G152) pAb at 1:1000 dilution Lane1:The Brain tissue lysate of Rat(40ug) Lane2:The Heart tissue lysate of Mouse(5ug) Lane3:L02 whole cell lysate(30ug) Lane4:HEK293T whole cell lysate(30ug)