

Mras Antibody

Rabbit mAb

Catalog # AP92976

Product Information

Application	WB
Primary Accession	O14807
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	Mras; R ras3; Ras related protein MRas; Ras related protein RRas3; RRas3; Xras;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	23846

Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Mras
Description	May serve as an important signal transducer for a novel upstream stimuli in controlling cell proliferation. Weakly activates the MAP kinase pathway.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	MRAS
Synonyms	RRAS3
Function	Signal transducer in the Ras-MAPK signaling pathway that regulates cell proliferation and survival (PubMed: 16630891 , PubMed: 28289718 , PubMed: 35768504 , PubMed: 35830882 , PubMed: 35831509 , PubMed: 36175670). Core component of the SHOC2-MRAS-PP1c (SMP) holophosphatase complex that regulates the MAPK pathway activation (PubMed: 16630891 , PubMed: 35768504 , PubMed: 35830882 , PubMed: 35831509 , PubMed: 36175670). The formation of the SMP complex only occurs when MRAS is GTP-bound (PubMed: 35768504 , PubMed: 35830882 , PubMed: 35831509 , PubMed: 36175670 , PubMed: 39809765). MRAS has low intrinsic GTPase activity and may require additional factors for activation (PubMed: 39809765). The SMP complex specifically dephosphorylates the inhibitory phosphorylation at 'Ser-259' of RAF1 kinase, 'Ser-365' of BRAF kinase and 'Ser-214' of ARAF kinase, stimulating their kinase activities (PubMed: 16630891 , PubMed: 35768504 , PubMed: 35830882 ,

PubMed:[35831509](#), PubMed:[36175670](#)).

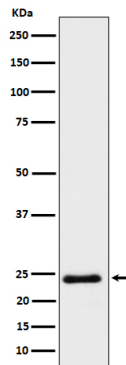
Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side

Tissue Location

Expression highly restricted to the brain and heart

Images



Western blot analysis of Mras expression in HeLa cell lysate.

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