

**MRas Rabbit pAb**  
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**Catalog # AP94748****Specification**

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**MRas Rabbit pAb - Product Information**

Application	WB
Primary Accession	<a href="#">O08989</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse MRas
Epitope Specificity	201-259/259
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Lipid-anchor; Cytoplasmic side (Potential).
SIMILARITY	Belongs to the small GTPase superfamily. Ras family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

MRas is a member of the RAS superfamily of GTP-binding proteins which are membrane-anchored, intracellular signal transducers responsible for a variety of normal cellular functions. They are oncogenically activated in a significant fraction of tumors. MRas participates in reorganisation of actin cytoskeleton. It is also involved in focal adhesion and can activate MAPK signalling.

**MRas Rabbit pAb - Additional Information****Gene ID** 17532**Other Names**

Ras-related protein M-Ras, 3.6.5.2, Muscle and microspikes Ras, Ras-related protein R-Ras3, X-Ras, Mras, Xras

**Target/Specificity**

Expression highly restricted to the brain and heart.

**Dilution**

<span class = "dilution\_WB">WB~1:1000</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**MRas Rabbit pAb - Protein Information**

**Name** Mras

**Synonyms** Xras

**Function**

Signal transducer in the Ras-MAPK signaling pathway that regulates cell proliferation and survival (By similarity). Core component of the SHOC2-MRAS-PP1c (SMP) holophosphatase complex that regulates the MAPK pathway activation (By similarity). The formation of the SMP complex only occurs when MRAS is GTP-bound (By similarity). MRAS has low intrinsic GTPase activity and may require additional factors for activation (By similarity). 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 (By similarity).

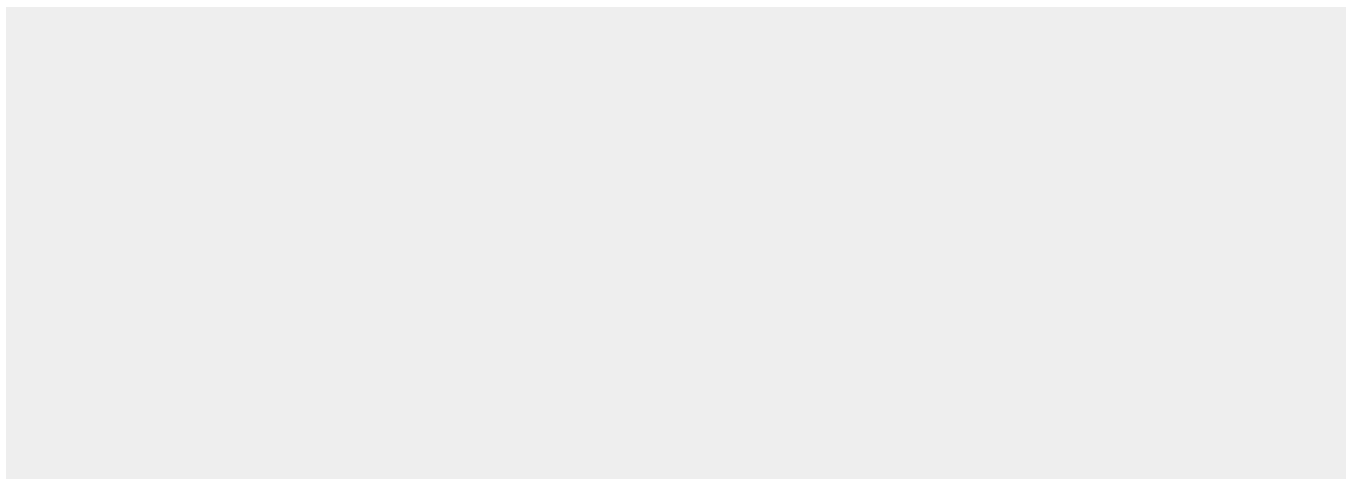
**Cellular Location**

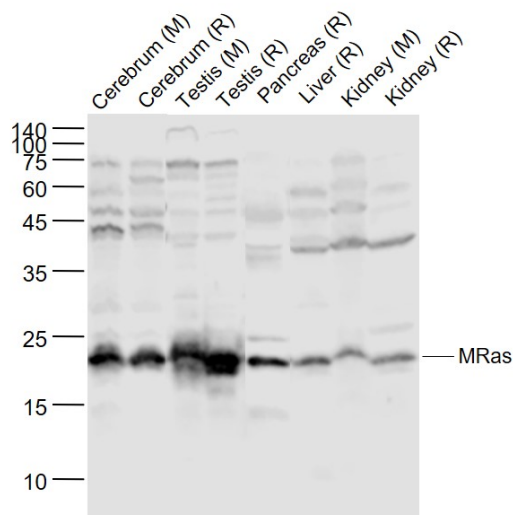
Cell membrane; Lipid-anchor; Cytoplasmic side

**MRas Rabbit pAb - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MRas Rabbit pAb - Images**



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebrum (Rat) Lysate at 40 ug Lane 3: Testis (Mouse) Lysate at 40 ug Lane 4: Testis (Rat) Lysate at 40 ug Lane 5: Pancreas (Rat) Lysate at 40 ug Lane 6: Liver (Rat) Lysate at 40 ug Lane 7: Kidney (Mouse) Lysate at 40 ug Lane 8: Kidney (Rat) Lysate at 40 ug Primary: Anti-MRas (AP94748) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 21 kD Observed band size: 21 kD

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