

KD-Validated Anti-MRAS Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1072**Specification****KD-Validated Anti-MRAS Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	O14807
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 24 kDa , observed, 24 kDa KDa
Gene Name	MRAS
Aliases	MRAS; Muscle RAS Oncogene Homolog; RRAS3; R-RAS3; Ras-Related Protein R-Ras3; Ras-Related Protein M-Ras; M-RAS; Muscle And Microspikes RAS; EC 3.6.5.2; M-RAS; NS11
Immunogen	A synthesized peptide derived from human Mras

KD-Validated Anti-MRAS Rabbit Monoclonal Antibody - Additional Information

Gene ID	22808
Other Names	
Ras-related protein M-Ras, 3.6.5.2, Ras-related protein R-Ras3, MRAS, RRAS3	

KD-Validated Anti-MRAS Rabbit Monoclonal Antibody - 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

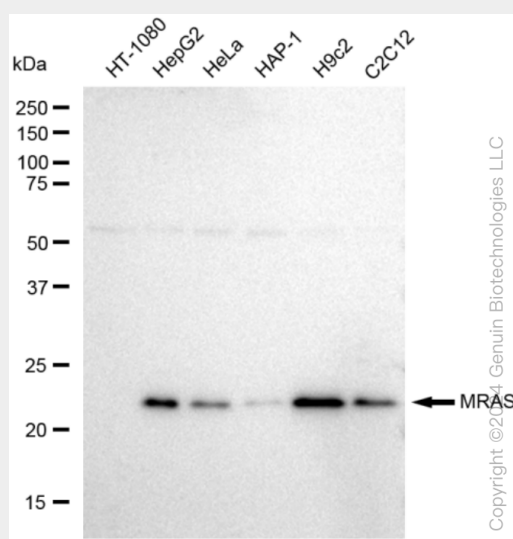
Expression highly restricted to the brain and heart

KD-Validated Anti-MRAS Rabbit Monoclonal Antibody - Protocols

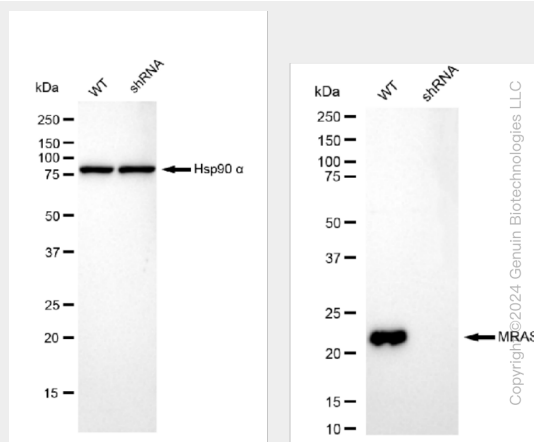
Provided below are standard protocols that you may find useful for product applications.

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

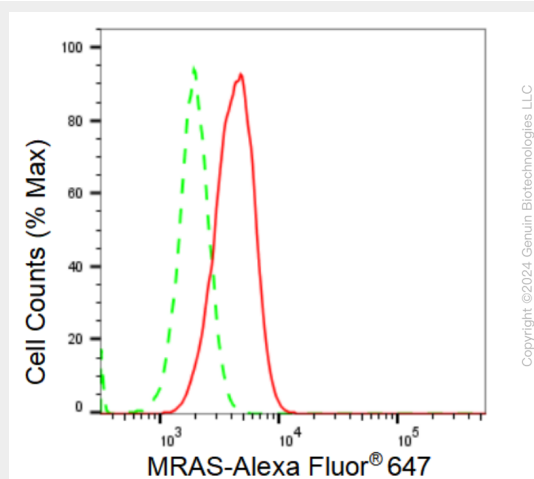
KD-Validated Anti-MRAS Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-MRAS antibody (Cat#AGI1072). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NDUFS3 antibody (Cat#AGI1072, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-MRAS antibody (Cat#AGI1072). MRAS expression in wild type (WT) and MRAS shRNA knockdown (KD) Hela cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-MRAS antibody (Cat#AGI1072, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of MRAS expression in H9c2 cells using MRAS antibody (Cat#AGI1072, 1:2,000). Green, isotype control; red, MRAS.