RASA2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RASA2, Blocking Peptide
Full Product Name	RASA2 Blocking Peptide
Product Gene Name	RASA2 blocking peptide
Product Synonym Names	GAP1m; GTPase activating protein of RAS; Ras GTPase activating protein 2; Ras GTPase-activating protein 2; RAS p21 protein activator 2; Rasa2; RASA2_HUMAN
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RASA2 peptide (MBS9622878) is used for blocking the activity of RASA2 antibody (MBS9604161)
Molecular Weight	96,527 Da
OMIM	601589
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RASA2 blocking peptide	Blocking/Control
Related Product Information for RASA2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of RASA2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RASA2 purchase	MBS9622878 is a blocking peptide targeting RASA2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASA2. It may not necessarily be applicable to this product.

NCBI GI #	747019245
NCBI GeneID	5922
NCBI Accession #	NP_001290174.1
UniProt Primary Accession #	Q15283
UniProt Secondary Accession #	O00695; Q15284; Q92594; Q99577; Q9UEQ2; A8K7K1; G3V0F9
UniProt Related Accession #	Q15283

GenBank Nucleotide #	NM_001303245.1
NCBI Official Full Name	ras GTPase-activating protein 2 isoform 2
NCBI Official Synonym Full Names	RAS p21 protein activator 2
NCBI Official Symbol	RASA2
NCBI Official Synonym Symbols	GAP1M
UniProt Protein Name	Ras GTPase-activating protein 2
UniProt Synonym Protein Names	GTPase-activating protein 1m; GAP1m
Protein Family	Ras GTPase-activating protein
UniProt Gene Name	RASA2
UniProt Synonym Gene Names	GAP1M; RASGAP; GAP1m
UniProt Entry Name	RASA2_HUMAN
NCBI Protein Information	ras GTPase-activating protein 2
NCBI Summary for RASA2	The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. The gene product stimulates the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Research Articles on RASA2	**1.** Recurrent inactivating RASA2 mutations are associated with melanoma.
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