A-RAF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	A-Raf, Polyclonal Antibody
Full Product Name	A-Raf (phospho Tyr302) Polyclonal Antibody
Product Gene Name	anti-A-Raf antibody
Product Synonym Names	ARAF; ARAF1; PKS; PKS2; Serine/threonine-protein kinase A-Raf; Proto-oncogene A-Raf; Proto-oncogene A-Raf-1; Proto-oncogene Pks
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	Phospho-A-Raf (Y302) Polyclonal Antibody detects endogenous levels of A-Raf protein only when phosphorylated at Y302.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	67,585 Da
Chromosome Location	Chromosome: X; NC_000023.10 (47420499..47431320). Location: Xp11.4-p11.2
OMIM	311010
3D Structure	ModBase 3D Structure for P10398
Immunogen	The antiserum was produced against synthesized peptide derived from human A-RAF around the phosphorylation site of Tyr302. AA range:276-325
Product Categories/Family for anti-A-Raf antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-A-Raf antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA)
Application Notes for anti-A-Raf antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 IF: 1:200-1:1000 ELISA: 1:20000
Related Product Information for anti-A-Raf antibody	A-Raf proto-oncogene, serine/threonine kinase (ARAF) Homo sapiens This proto-oncogene belongs to the RAF subfamily of the Ser/Thr protein kinase family, and maybe involved in cell growth and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2012]
Other Notes	Small volumes of anti-A-Raf antibody 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 A-Raf purchase	MBS8586287 is an antibody targeting A-Raf. Also known as A-Raf (phospho Tyr302) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	371875793
NCBI GeneID	369
NCBI Accession #	NP_001243125.1
UniProt Primary Accession #	P10398
UniProt Secondary Accession #	P07557; Q5H9B2; Q5H9B3
UniProt Related Accession #	P10398
GenBank Nucleotide #	NM_001256196.1
NCBI Official Full Name	serine/threonine-protein kinase A-Raf isoform 2
NCBI Official Synonym Full Names	v-raf murine sarcoma 3611 viral oncogene homolog
NCBI Official Symbol	ARAF
NCBI Official Synonym Symbols	PKS2; A-RAF; ARAF1; RAFA1
UniProt Protein Name	Serine/threonine-protein kinase A-Raf
UniProt Synonym Protein Names	Proto-oncogene A-Raf; Proto-oncogene A-Raf-1; Proto-oncogene Pks
Protein Family	Progestin and adipoQ receptor family
UniProt Gene Name	ARAF
UniProt Synonym Gene Names	ARAF1; PKS; PKS2
UniProt Entry Name	ARAF_HUMAN
NCBI Protein Information	serine/threonine-protein kinase A-Raf; Oncogene ARAF1; proto-oncogene Pks; proto-oncogene A-Raf-1; Ras-binding protein DA-Raf; v-raf murine sarcoma 3611 viral oncogene homolog 1; A-Raf proto-oncogene serine/threonine-protein kinase
NCBI Summary for A-Raf	This proto-oncogene belongs to the RAF subfamily of the Ser/Thr protein kinase family, and maybe involved in cell growth and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2012]
UniProt Comments for A-Raf	ARAF: a tyrosine kinase-like kinase of the RAF family. Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. May play a role in the postsynaptic responses of hippocampal neuron. Frequently mutated in thyroid cancers, skin melanomas and at lower frequency in a wide range of human cancers. An activating mutation, mimicking phosphorylation of the activation loop, is seen in 60% of malignant melanoma samples. Raf mutations are generally exclusive to Ras activating mutations. Activating mutations are also seen in ~10% of colorectal cancers, in lung cancers and gliomas, and at a lower rate in several other tumors. Inactivating mutations are also seen and may result in activation of c-Raf and Erk. Mutations in B-Raf, MEK1 and MEK2 also associated with cardiofaciocutaneous syndrome, displaying morphological, cardiac and mental defects. Approved Inhibitor: Nexavar/Sorafenib. Protein type: Protein kinase, TKL; Protein kinase, Ser/Thr (non-receptor); Oncoprotein; Kinase, protein; EC 2.7.11.1; TKL group; RAF family Chromosomal Location of Human Ortholog: Xp11.4-p11.2 Molecular Function: protein serine/threonine kinase activity; protein binding; metal ion binding; receptor signaling protein activity; ATP binding; protein kinase activity Biological Process: regulation of proteasomal ubiquitin-dependent protein catabolic process; protein modification process; protein amino acid phosphorylation; positive regulation of peptidyl-serine phosphorylation; negative regulation of apoptosis; regulation of TOR signaling pathway

Research Articles on A-Raf	**1.** Ras pathway activation via EGF treatment induced strong binding between B-Raf and C-Raf and a low level of binding between B-Raf and A-Raf.
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