HRAS2 (ERAS) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ERAS HRAS2, Polyclonal Antibody
Full Product Name	ERAS HRAS2 Antibody FITC Conjugated
Product Gene Name	anti-ERAS antibody
Product Synonym Gene Name	HRAS2
Product Synonym Names	E ras; E-Ras; ecat5; Embryonic stem cell expressed Ras; Embryonic stem cell-expressed Ras; Eras; ES cell expressed Ras; GTPase ERas; Ha-Ras2; HRAS2; HRASP; MGC126691; MGC126693; OTTHUMP00000065857; RASE_HUMAN; Small GTPase protein E Ras; v Ha ras Harvey rat sarcoma viral oncogene hom; ERAS HRAS2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	10mM Tris Buffered Saline containing 1% BSA, 50% glycerol and 0.09% sodium azide.
Purity/Purification	Purified by Protein A
Concentration	1mgml (lot specific)
Preparation and Storage	Store at 4 degree C for 12 months.
Molecular Weight	25,287 Da
Chromosome Location	Chromosome: X; NC_000023.10 (48687283..48688548). Location: Xp11.23
OMIM	300437
3D Structure	ModBase 3D Structure for Q7Z444
Conjugation	FITC
Excitation Emission	494nm 518nm
Immunogen	KLH conjugated synthetic peptide derived from human ERAS HRAS2
Product Categories/Family for anti-ERAS antibody	Conjugated Primary Antibodies
Applications Tested/Suitable for anti-ERAS antibody	Immunofluorescence (IF)
Application Notes for anti-ERAS antibody	IF: 1:50-200
Related Product Information for anti-ERAS antibody	ERAS belongs to the small GTPase superfamily. Ras family. Ras proteins bind GDP GTP and possess intrinsic GTPase activity. The ERas gene is expressed in embryonic stem (ES) cells and promotes their in vitro proliferation and tumorigenicity. ERas-null ES cells maintain pluripotency but show significantly reduced growth and tumorigenicity, which are rescued by expression of ERas complementary DNA or by activated phosphatidylinositol-3-OH kinase.
Other Notes	Small volumes of anti-ERAS 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 ERAS purchase	MBS9461555 is an antibody targeting ERAS. Also known as ERAS HRAS2 Antibody FITC Conjugated. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	31559833
NCBI GeneID	3266
NCBI Accession #	NP_853510.1
UniProt Primary Accession #	Q7Z444
UniProt Related Accession #	Q7Z444
GenBank Nucleotide #	NM_181532.3
NCBI Official Full Name	GTPase ERas
NCBI Official Synonym Full Names	ES cell expressed Ras
NCBI Official Symbol	ERAS
NCBI Official Synonym Symbols	HRAS2; HRASP
UniProt Protein Name	GTPase ERas
UniProt Synonym Protein Names	Embryonic stem cell-expressed Ras
Protein Family	GTPase
UniProt Gene Name	ERAS
UniProt Synonym Gene Names	HRAS2; HRASP; E-Ras
UniProt Entry Name	RASE_HUMAN
NCBI Protein Information	GTPase ERas; E-Ras; small GTPase protein E-Ras; embryonic stem cell-expressed Ras; v-Ha-ras Harvey rat sarcoma viral oncogene homolog 2; v-Ha-ras Harvey rat sarcoma viral oncogene homolog pseudogene
NCBI Summary for ERAS	This gene encodes a constitutively active member of the small GTPase Ras protein family. The encoded protein activates the phosphatidylinositol 3-kinase signal transduction pathway in undifferentiated stem cells, but is not expressed in differentiated cells. This gene may be involved in cancer and chemotherapy resistance. [provided by RefSeq, Dec 2012]
UniProt Comments for ERAS	ERas: Ras proteins bind GDP/GTP and possess intrinsic GTPase activity. Plays an important role in the tumor-like growth properties of embryonic stem cells. Belongs to the small GTPase superfamily. Ras family. Protein type: G protein, monomeric; G protein, monomeric, Ras; G protein Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: plasma membrane Molecular Function: GTP binding Biological Process: small GTPase mediated signal transduction
Research Articles on ERAS	**1.** Data indicate that expression of ERAS, LHX1, and CCRK is increased in aggressive subgroups of medulloblastomas.
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