MCF2L Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCF2L, Polyclonal Antibody
Full Product Name	MCF2L Polyclonal Antibody
Product Gene Name	anti-MCF2L antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	102-128kDa
OMIM	609499
3D Structure	ModBase 3D Structure for O15068
Immunogen	Recombinant protein of human MCF2L (NP_079255.4).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCF2L antibody	Western Blot (WB)
Application Notes for anti-MCF2L antibody	WB: 1:1000-1:4000
Related Product Information for anti-MCF2L antibody	This gene encodes a guanine nucleotide exchange factor that interacts specifically with the GTP-bound Rac1 and plays a role in the Rho/Rac signaling pathways. A variant in this gene was associated with osteoarthritis. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-MCF2L 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 MCF2L purchase	MBS8574373 is an antibody targeting MCF2L. Also known as MCF2L Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCF2L. It may not necessarily be applicable to this product.

NCBI GI #	163644323
NCBI GeneID	23263
NCBI Accession #	NP_079255.3
UniProt Primary Accession #	O15068
UniProt Related Accession #	O15068

GenBank Nucleotide #	NP_079255.3
NCBI Official Full Name	guanine nucleotide exchange factor DBS isoform b
NCBI Official Synonym Full Names	MCF.2 cell line derived transforming sequence like
NCBI Official Symbol	MCF2L
NCBI Official Synonym Symbols	DBS; OST; ARHGEF14
UniProt Protein Name	Guanine nucleotide exchange factor DBS
UniProt Synonym Protein Names	DBL's big sister; MCF2-transforming sequence-like protein
Protein Family	Guanine nucleotide exchange factor
UniProt Gene Name	MCF2L
UniProt Synonym Gene Names	KIAA0362
UniProt Entry Name	MCF2L_HUMAN
NCBI Protein Information	guanine nucleotide exchange factor DBS
UniProt Comments for MCF2L	ARHGEF14: Guanine nucleotide exchange factor that potentially links pathways that signal through RAC1, RHOA and CDC42. Catalyzes guanine nucleotide exchange on RHOA and CDC42 and interacts specifically with the GTP-bound form of RAC1, suggesting that it functions as an effector of RAC1. May also participate in axonal transport in the brain. Becomes activated and highly tumorigenic by truncation of the N-terminus. Isoform 5 activates CDC42. Belongs to the MCF2 family. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; GEFs, Rac/Rho; GEFs Chromosomal Location of Human Ortholog: 13q34 Cellular Component: extracellular space; lamellipodium; plasma membrane; cytosol Molecular Function: Rho guanyl-nucleotide exchange factor activity; phosphatidylinositol binding Biological Process: regulation of small GTPase mediated signal transduction; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; small GTPase mediated signal transduction; positive regulation of transcription from RNA polymerase II promoter; Rho protein signal transduction
Research Articles on MCF2L	**1.** When compared to the gemcitabine-sensitive cells, the gemcitabine-resistant cells had a higher level of MCF2L expression, suggesting that MCF2L plays an important role in gemcitabine resistance
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