



Rabbit Anti-MCF2 antibody

SL18722R

Product Name:	MCF2
Chinese Name:	MCF2蛋白抗体
Alias:	DBL; DBL-transforming protein; MCF2; MCF2_HUMAN; MCF2-transforming protein; Proto-oncogene DBL; Proto-oncogene MCF-2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	108kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MCF2:401-500/925
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The oncogenic protein encoded by this gene is a guanine nucleotide exchange factor (GEF) that exerts control over some members of the Rho family of small GTPases. Several transcript variants encoding different isoforms have been found for this gene. These isoforms exhibit different expression patterns and varying levels of GEF activity.[provided by RefSeq, Jan 2010]

Function:

Guanine nucleotide exchange factor (GEF) that modulates the Rho family of GTPases. Promotes the conversion of some member of the Rho family GTPase from the GDP-bound to the GTP-bound form. Isoform 1 exhibits no activity toward RHOA, RAC1 or CDC42. Isoform 2 exhibits decreased GEF activity toward CDC42. Isoform 3 exhibits a weak but significant activity toward RAC1 and CDC42. Isoform 4 exhibits significant activity toward RHOA and CDC42. The truncated DBL oncogene is active toward RHOA, RAC1 and CDC42.

Subunit:

Interacts with an array of inositol phospholipids such as phosphatidylinositol 3-phosphate (PI3P), phosphatidylinositol 4-phosphate (PI4P) and phosphatidylinositol 5-phosphate (PI5P). May interact with CCPG1.

Subcellular Location:

Cytoplasm Isoform 1: Membrane Isoform 3: Membrane. Note: Colocalizes with CDC42 to plasma membrane.

Tissue Specificity:

Isoform 1 is expressed only in brain. Isoform 3 is expressed in heart, kidney, spleen, liver and testis. Isoform 4 is expressed in brain, heart, kidney, testis, placenta, stomach and peripheral blood. The protein is detectable in brain, heart, kidney, intestine, muscle, lung and testis.

Post-translational modifications:

Phosphorylation by TNK2 enhances guanine nucleotide exchange factor (GEF) activity toward Rho family proteins.

DISEASE:

MCF2 and DBL represent two activated versions of the same proto-oncogene.

Similarity:

Belongs to the MCF2 family.
Contains 1 CRAL-TRIO domain.
Contains 1 DH (DBL-homology) domain.
Contains 1 PH domain.
Contains 1 spectrin repeat.

SWISS:

P10911

Gene ID:

4168

Database links:

[Entrez Gene: 4168](#) Human

[Oimim: 311030](#) Human

[SwissProt: P10911](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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