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MCF2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12563b

Specification

MCF2 Antibody (C-term) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P10911
Other Accession	NP_001165349.1, NP_005360.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**107673**
Antigen Region	**804-833**

MCF2 Antibody (C-term) - Additional Information

Gene ID 4168

Other Names
Proto-oncogene DBL, Proto-oncogene MCF-2, MCF2-transforming protein, DBL-transforming protein, MCF2, DBL

Target/Specificity
This MCF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 804-833 amino acids from the C-terminal region of human MCF2.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
MCF2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MCF2 Antibody (C-term) - Protein Information

Name MCF2

Synonyms DBL

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.

Cellular Location
Cytoplasm. [Isoform 3]: Membrane. Note=Colocalizes with CDC42 to plasma membrane

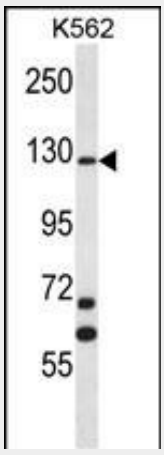
Tissue Location
Isoform 1 is expressed only in brain. Isoform 3 is expressed in heart, kidney, spleen, liver and testis. Isoform 4 is expressed in brain, heart, kidney, testis, placenta, stomach and peripheral blood. The protein is detectable in brain, heart, kidney, intestine, muscle, lung and testis.

MCF2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

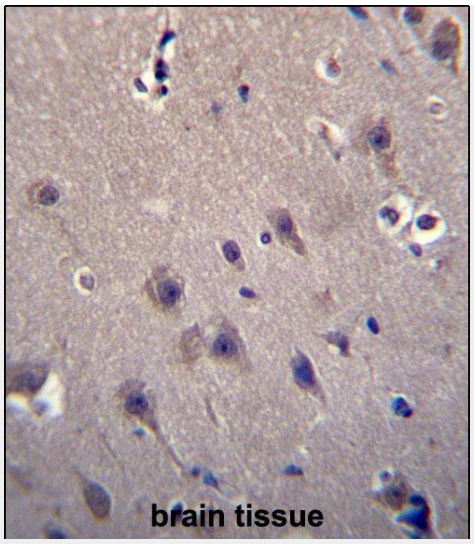
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MCF2 Antibody (C-term) - Images

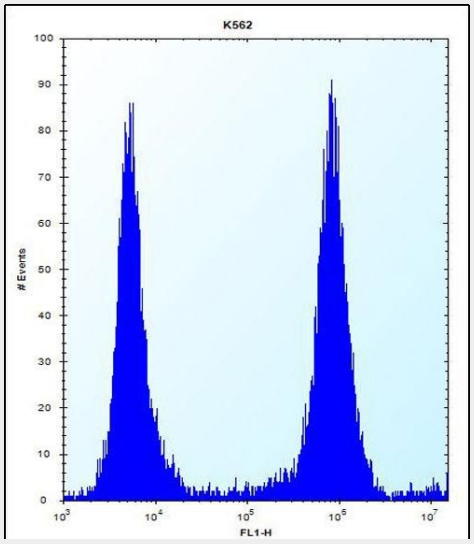


MCF2 Antibody (C-term) (Cat. #AP12563b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the MCF2 antibody detected the MCF2 protein (arrow).

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MCF2 Antibody (C-term) (Cat. #AP12563b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MCF2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



MCF2 Antibody (C-term) (Cat. #AP12563b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

MCF2 Antibody (C-term) - Background

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.

MCF2 Antibody (C-term) - References

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Murakami, M., et al. Int. J. Cancer 123(3):500-510(2008)

Murakami, M., et al. Cancer Biol. Ther. 7(5):677-688(2008)
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Prag, S., et al. Mol. Biol. Cell 18(8):2935-2948(2007)