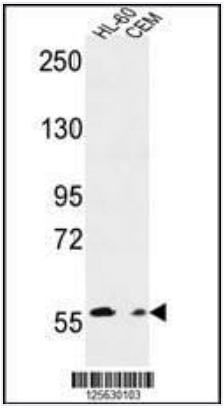
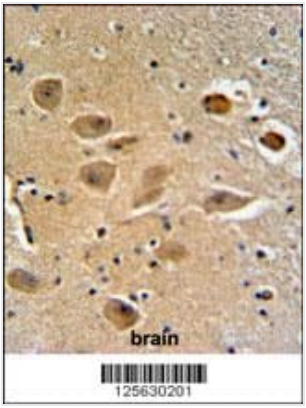
MILK2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

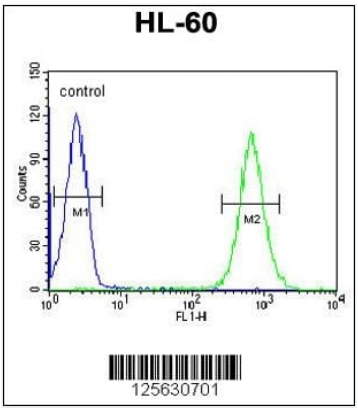
Product Name	MILK2, Polyclonal Antibody
Full Product Name	MILK2, CT (MICALL2, MICAL-like protein 2) (PE)
Product Gene Name	anti-MILK2 antibody
Product Synonym Gene Name	MICALL2
Product Synonym Names	MICALL2; MICAL-like protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	74,527 Da
3D Structure	ModBase 3D Structure for Q8IY33
Immunogen	MILK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between amino acids 846-876 from the C-terminal region of human MILK2.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-MILK2 antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-MILK2 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-MILK2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-MILK2 antibody	MBS6320843 is an antibody targeting MILK2. Also known as MILK2, CT (MICALL2, MICAL-like protein 2) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MILK2 antibody	Kanda, I., et al. Oncogene 27(12):1687-1695(2008). Terai, T., et al. Mol. Biol. Cell 17(5):2465-2475(2006). Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003). Terman, J.R., et al. Cell 109(7):887-900(2002).
Other Notes	Small volumes of anti-MILK2 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.



Western Blot (WB) of anti-MILK2 antibody
MILK2 Antibody (C-term) western blot analysis in HL-60,CEM cell line lysates (35ug/lane).This demonstrates the MILK2 antibody detected the MILK2 protein (arrow).



Immunohistochemistry (IHC) of anti-MILK2 antibody
MILK2 Antibody (C-term) IHC 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 the MILK2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-MILK2 antibody
MILK2 Antibody (C-term) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MILK2. It may not necessarily be applicable to this product.

NCBI GI #	33667117
NCBI GeneID	79778
NCBI Accession #	NP_891554.1
UniProt Primary Accession #	Q8IY33
UniProt Secondary Accession #	Q7RTP4; Q7Z655; Q8TEQ4; Q9H5F9; D3YTD2
UniProt Related Accession #	Q8IY33
GenBank Nucleotide #	NM_182924.3
NCBI Official Full Name	MICAL-like protein 2
NCBI Official Synonym Full Names	MICAL like 2
NCBI Official Symbol	MICALL2
NCBI Official Synonym Symbols	JRAB; MICAL-L2
UniProt Protein Name	MICAL-like protein 2
UniProt Synonym Protein Names	Junctional Rab13-binding protein; Molecule interacting with CasL-like 2; MICAL-L2

UniProt Gene Name	MICALL2
UniProt Synonym Gene Names	JRAB; MICAL-L2
NCBI Protein Information	MICAL-like protein 2
UniProt Comments for MILK2	Effector of small Rab GTPases which is involved in junctional complexes assembly through the regulation of cell adhesion molecules transport to the plasma membrane and actin cytoskeleton reorganization. Regulates the endocytic recycling of occludins, claudins and E-cadherin to the plasma membrane and may thereby regulate the establishment of tight junctions and adherens junctions. In parallel, may regulate actin cytoskeleton reorganization directly through interaction with F-actin or indirectly through actinins and filamins. Most probably involved in the processes of epithelial cell differentiation, cell spreading and neurite outgrowth ().
Research Articles on MILK2	**1.** Data indicate that MICAL-L2 may be an important regulator of epithelial-mesenchymal transition (EMT) in ovarian cancer cells.
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