DOC2A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DOC2A, Polyclonal Antibody
Full Product Name	DOC2A, ID (DOC2A, Double C2-like domain-containing protein alpha) (MaxLight 405)
Product Gene Name	anti-DOC2A antibody
Product Synonym Names	DOC2A; Double C2-like domain-containing protein alpha
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 MaxLight405.
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: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,384 Da
OMIM	604567
3D Structure	ModBase 3D Structure for Q14183
Immunogen	DOC2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 284-314 amino acids from the Central region of human DOC2A.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-DOC2A antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-DOC2A antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-DOC2A antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-DOC2A antibody	There are at least two protein isoforms of the Double C2 protein, namely alpha (DOC2A) and beta (DOC2B), which contain two C2-like domains. DOC2A and DOC2B are encoded by different genes; these genes are at times confused with the unrelated DAB2 gene which was initially named DOC-2. DOC2A is mainly expressed in brain and is suggested to be involved in Ca(2+)-dependent neurotransmitter release.
Product References and Citations for anti-DOC2A antibody	Shimada, M., et al. Hum. Genet. 128(4):433-441(2010). Glessner, J.T., et al. Proc. Natl. Acad. Sci. U.S.A. 107(23):10584-10589(2010). Guilmatre, A., et al. Arch. Gen. Psychiatry 66(9):947-956(2009). Kumar, R.A., et al. PLoS ONE 4 (2), E4582 (2009): Higashio, H., et al. J. Immunol. 180(7):4774-4784(2008).

Other Notes	Small volumes of anti-DOC2A 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 DOC2A purchase	MBS6293174 is an antibody targeting DOC2A. Also known as DOC2A, ID (DOC2A, Double C2-like domain-containing protein alpha) (MaxLight 405). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DOC2A. It may not necessarily be applicable to this product.

NCBI GI #	47078261
NCBI GeneID	8448
NCBI Accession #	NP_003577.2
UniProt Primary Accession #	Q14183
UniProt Secondary Accession #	Q6P4G4; Q7Z5G0; Q8IVX0; B4DEJ2; H3BNH6
UniProt Related Accession #	Q14183
GenBank Nucleotide #	NM_003586.2
NCBI Official Full Name	double C2-like domain-containing protein alpha
NCBI Official Synonym Full Names	double C2 domain alpha
NCBI Official Symbol	DOC2A
NCBI Official Synonym Symbols	Doc2
UniProt Protein Name	Double C2-like domain-containing protein alpha
Protein Family	Double C2-like domain-containing protein
UniProt Gene Name	DOC2A
UniProt Synonym Gene Names	Doc2; Doc2-alpha
UniProt Entry Name	DOC2A_HUMAN
NCBI Protein Information	double C2-like domain-containing protein alpha
NCBI Summary for DOC2A	There are at least two protein isoforms of the Double C2 protein, namely alpha (DOC2A) and beta (DOC2B), which contain two C2-like domains. DOC2A and DOC2B are encoded by different genes; these genes are at times confused with the unrelated DAB2 gene which was initially named DOC-2. DOC2A is mainly expressed in brain and is suggested to be involved in Ca(2+)-dependent neurotransmitter release. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Research Articles on DOC2A	**1.** Study analyzed Doc2alpha and Doc2beta and found that Doc2 responds to changes in [Ca2+], with markedly slower kinetics as compared to the cytosolic domain of syt I (syt), and operates on a timescale consistent with asynchronous neurotransmitter release.
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