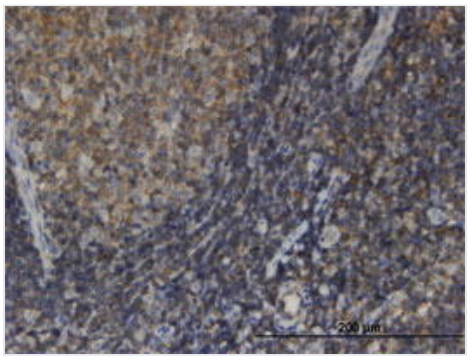
EDC4 Antibody – Mouse Monoclonal

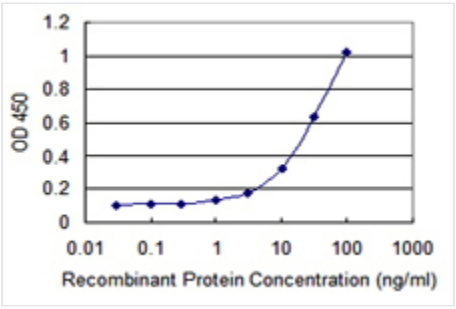
PRODUCT OVERVIEW

Product Name	EDC4, Monoclonal Antibody
Full Product Name	EDC4 (Enhancer of mRNA-decapping Protein 4, Autoantigen Ge-1, Autoantigen RCD-8, Human Enhancer of Decapping Large Subunit, Hedls, HEDLS) (FITC)
Product Gene Name	anti-EDC4 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2E2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human EDC4.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	109,728 Da
OMIM	606030
3D Structure	ModBase 3D Structure for Q6P2E9
Immunogen	Partial recombinant corresponding to aa1302-1402 from EDC4 (NP_055144) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PAQVFGQPPCPLSQPVLLSLIQQLASDLGTRTDLKLSYLEEAVMHLDHSDPITRDHMGSVMAQVRQKLFQFLQAEPHNSLGKAARRLSLMLHGLVTPSLP
Conjugate	FITC
Product Categories/Family for anti-EDC4 antibody	Antibodies; Autoimmune
Applications Tested/Suitable for anti-EDC4 antibody	ELISA (EIA), Immunofluorescence (IF), Immunohistochemistry (IHC)
Application Notes for anti-EDC4 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.

Related Product Information for anti-EDC4 antibody	MBS6146961 is an antibody targeting EDC4. Also known as EDC4 (Enhancer of mRNA-decapping Protein 4, Autoantigen Ge-1, Autoantigen RCD-8, Human Enhancer of Decapping Large Subunit, Hedls, HEDLS) (FITC). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-EDC4 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.



Testing Data of anti-EDC4 antibody
Immunoperoxidase of monoclonal antibody to EDC4 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3ug/ml]



Testing Data of anti-EDC4 antibody
Detection limit for recombinant GST tagged EDC4 is 0.3ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDC4. It may not necessarily be applicable to this product.

NCBI GI #	45827771
NCBI GeneID	23644
NCBI Accession #	NP_055144
UniProt Primary Accession #	Q6P2E9
UniProt Secondary Accession #	Q13025; Q13826; Q6ZR12; Q7Z6H7; A6NGM1; A8K4T4
UniProt Related Accession #	Q6P2E9
GenBank Nucleotide #	NM_014329
NCBI Official Full Name	enhancer of mRNA-decapping protein 4
NCBI Official Synonym Full Names	enhancer of mRNA decapping 4
NCBI Official Symbol	EDC4
NCBI Official Synonym Symbols	GE1; Ge-1; RCD8; HEDL5; HEDLS; RCD-8
UniProt Protein Name	Enhancer of mRNA-decapping protein 4
UniProt Synonym Protein Names	Autoantigen Ge-1; Autoantigen RCD-8; Human enhancer of decapping large subunit
Protein Family	Enhancer of mRNA-decapping protein
UniProt Gene Name	EDC4
UniProt Synonym Gene Names	HEDLS; Hedls
UniProt Entry Name	EDC4_HUMAN
NCBI Protein Information	enhancer of mRNA-decapping protein 4; autoantigen Ge-1; autoantigen RCD-8; human enhancer of decapping large subunit

UniProt Comments for EDC4	EDC4: a protein required for the 5' a?? 3' pathway of mRNA decapping and degradation-based post-transcriptional gene silencing. The proteins involved in 5' a?? 3' mRNA decay include DCP2, DCP1A, EDC3, EDC4 and DDX6, and are concentrated in cytoplasmic structures called mRNA "processing bodies" (P-bodies). Shortening of the 3'-poly(A) tail and removal of PABP precedes cleavage of the 5'-mRNA cap by a complex containing decapping enzymes 1A and 2 (DCP1A/DCP2). EDC4 enhances the catalytic activity of DCP2 in vitro. Shown to be required for silencing by miRNAs in Drosophila melanogaster. Two alternatively spliced human isoforms have been described. Protein type: RNA processing Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: nucleoplasm; intracellular membrane-bound organelle; membrane; cytoplasm; nucleus; cytosol Molecular Function: protein binding Biological Process: gene expression; mRNA catabolic process, deadenylation-dependent decay
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