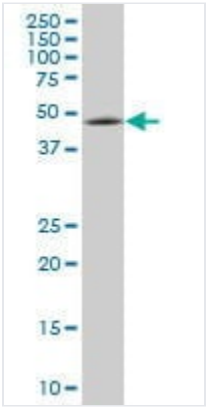
ENC1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	ENC1, Monoclonal Antibody
Full Product Name	ENC1 (Ectodermal-Neural cortex (with BTB-like Domain), CCL28, ENC-1, FLJ39259, KLHL35, KLHL37, NRPB, PIG10, TP53I10) (FITC)
Product Gene Name	anti-ENC1 antibody
Product Synonym Names	Ectodermal-Neural cortex (with BTB-like Domain); CCL28; ENC-1; FLJ39259; KLHL35; KLHL37; NRPB; PIG10; TP53I10
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3C10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes ENC1.
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. 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	66kDa
OMIM	605173
3D Structure	ModBase 3D Structure for O14682
Immunogen	ENC1 (NP_003624, 17aa-98aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SINIYLFHKSSYADSVLTHLNLLRQQRLFTDVLLHAGNRTFPCHRAVLAACSRYFEAMFSGGLKESQDSEVNFDNSIHPEVL
Conjugate	FITC
Product Categories/Family for anti-ENC1 antibody	Antibodies; Kelch-like Proteins
Applications Tested/Suitable for anti-ENC1 antibody	Western Blot (WB)
Application Notes for anti-ENC1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-ENC1 antibody	DNA damage and/or hyperproliferative signals activate wildtype p53 tumor suppressor protein (TP53; MIM 191170), inducing cell cycle arrest or apoptosis. Mutations that inactivate p53 occur in 50% of all tumors. Polyak et al. (1997) [PubMed 9305847] used serial analysis of gene expression (SAGE) to evaluate cellular mRNA levels in a colorectal cancer cell line transfected with p53. Of 7,202 transcripts identified, only 14 were expressed at levels more than 10-fold higher in p53-expressing cells than in control cells. Polyak et al. (1997) [PubMed 9305847] termed these genes 'p53-induced genes,' or PIGs, several of which were predicted to encode redox-controlling proteins. They noted that reactive oxygen species (ROS) are potent inducers of apoptosis. Flow cytometric analysis showed that p53 expression induces ROS production, which increases as apoptosis progresses under some conditions. The authors stated that the PIG10 gene, also called ENC1, encodes an actin-binding protein. [supplied by OMIM]

Other Notes	Small volumes of anti-ENC1 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 ENC1 purchase	MBS6177130 is an antibody targeting ENC1. Also known as ENC1 (Ectodermal-Neural cortex (with BTB-like Domain), CCL28, ENC-1, FLJ39259, KLHL35, KLHL37, NRPB, PIG10, TP53I10) (FITC). Host: Mouse.



Western Blot (WB) of anti-ENC1 antibody
ENC1 monoclonal antibody (M03), clone 3C10. Western Blot analysis of ENC1 expression in IMR-32 (Cat # L008V1).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENC1. It may not necessarily be applicable to this product.

NCBI GI #	4505461
NCBI GeneID	8507
NCBI Accession #	NP_003624
UniProt Primary Accession #	O14682
UniProt Related Accession #	O14682
GenBank Nucleotide #	NM_003633
NCBI Official Full Name	ectoderm-neural cortex protein 1 isoform 1
NCBI Official Synonym Full Names	ectodermal-neural cortex 1
NCBI Official Symbol	ENC1
NCBI Official Synonym Symbols	NRPB; CCL28; ENC-1; PIG10; KLHL35; KLHL37; TP53I10
UniProt Protein Name	Ectoderm-neural cortex protein 1
UniProt Synonym Protein Names	Kelch-like protein 37; Nuclear matrix protein NRP/B; p53-induced gene 10 protein
Protein Family	Ectoderm-neural cortex protein
UniProt Gene Name	ENC1
UniProt Synonym Gene Names	KLHL37; NRPB; PIG10; ENC-1
UniProt Entry Name	ENC1_HUMAN
NCBI Protein Information	ectoderm-neural cortex protein 1
NCBI Summary for ENC1	This gene encodes a member of the kelch-related family of actin-binding proteins. The encoded protein plays a role in the oxidative stress response as a regulator of the transcription factor Nrf2, and expression of this gene may play a role in malignant transformation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]

UniProt Comments for ENC1	ENC1: Actin-binding protein involved in the regulation of neuronal process formation and in differentiation of neural crest cells. May be down-regulated in neuroblastoma tumors. Substrate- specific adapter of an E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Protein type: Actin-binding Chromosomal Location of Human Ortholog: 5q13 Cellular Component: nucleoplasm; cytoskeleton; nuclear matrix; cell soma; nuclear chromatin; cytoplasm; nucleolus; nucleus Molecular Function: protein binding; actin binding Biological Process: nervous system development; negative regulation of translation; multicellular organismal development; proteasomal ubiquitin-independent protein catabolic process; protein ubiquitination
Research Articles on ENC1	**1.** ENC1 interacts with the phosphorylated p62 to impair autophagic degradation of mutant huntingtin protein aggregates.
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