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ENC1 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant ENC1.
Catalog # AT1905a

Specification

ENC1 Antibody (monoclonal) (M02) - Product Information

Application	**WB, E**
Primary Accession	O14682
Other Accession	NM_003633
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**66130**

ENC1 Antibody (monoclonal) (M02) - Additional Information

Gene ID 8507

Other Names
Ectoderm-neural cortex protein 1, ENC-1, Kelch-like protein 37, Nuclear matrix protein NRP/B, p53-induced gene 10 protein, ENC1, KLHL37, NRPB, PIG10

Target/Specificity
ENC1 (NP_003624, 17 a.a. ~ 98 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
ENC1 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

ENC1 Antibody (monoclonal) (M02) - Protocols

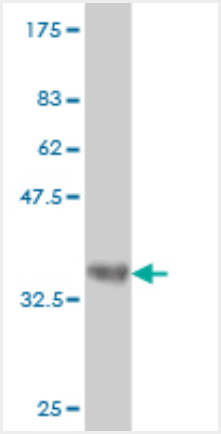
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

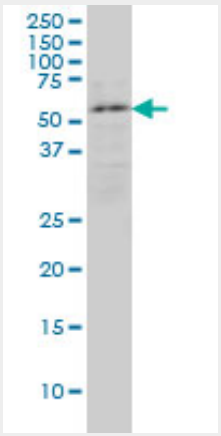
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

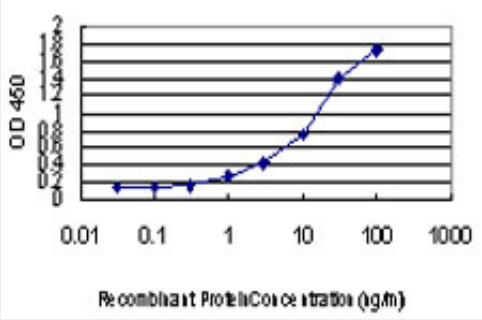
ENC1 Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.76 KDa) .



ENC1 monoclonal antibody (M02), clone 3B1 Western Blot analysis of ENC1 expression in IMR-32 ((Cat # AT1905a)



Detection limit for recombinant GST tagged ENC1 is approximately 0.3ng/ml as a capture antibody.

ENC1 Antibody (monoclonal) (M02) - Background

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.

ENC1 Antibody (monoclonal) (M02) - References

1.Characterization of Differential Gene Expression in Adrenocortical Tumors Harboring {beta}-Catenin (CTNNB1) Mutations.Durand J, Lampron A, Mazzuco TL, Chapman A, Bourdeau I.J Clin Endocrinol Metab. 2011 May 11. [Epub ahead of print]