

# **ENC1 Antibody (C-term) Blocking Peptide**

Synthetic peptide Catalog # BP17107b

# **Specification**

# **ENC1** Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

014682

# ENC1 Antibody (C-term) Blocking Peptide - 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

#### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

# **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

#### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

# ENC1 Antibody (C-term) Blocking Peptide - Protein Information

#### Name ENC1

Synonyms KLHL37, NRPB, PIG10

## **Function**

Actin-binding protein involved in the regulation of neuronal process formation and in differentiation of neural crest cells. Down- regulates transcription factor NF2L2/NRF2 by decreasing the rate of protein synthesis and not via a ubiquitin-mediated proteasomal degradation mechanism.

## **Cellular Location**

Nucleus matrix. Cytoplasm. Cytoplasm, cytoskeleton

#### **Tissue Location**

Detected in fetal brain tissue, moderate expression in fetal heart, lung and kidney. Highly expressed in adult brain, particularly high in the hippocampus and amygdala, and spinal chord Detectable in adult pancreas. May be down-regulated in neuroblastoma tumors



# **ENC1 Antibody (C-term) Blocking Peptide - Protocols**

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

#### • Blocking Peptides

**ENC1 Antibody (C-term) Blocking Peptide - Images** 

# **ENC1 Antibody (C-term) Blocking Peptide - Background**

DNA damage and/or hyperproliferative signals activatewildtype p53 tumor suppressor protein (TP53; MIM 191170), inducingcell cycle arrest or apoptosis. Mutations that inactivate p53 occurin 50% of all tumors. Polyak et al. (1997) [PubMed 9305847] usedserial analysis of gene expression (SAGE) to evaluate cellular mRNAlevels in a colorectal cancer cell line transfected with p53. Of7,202 transcripts identified, only 14 were expressed at levels morethan 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 toencode redox-controlling proteins. They noted that reactive oxygenspecies (ROS) are potent inducers of apoptosis. Flow cytometricanalysis showed that p53 expression induces ROS production, whichincreases as apoptosis progresses under some conditions. Theauthors stated that the PIG10 gene, also called ENC1, encodes anactin-binding protein.

# ENC1 Antibody (C-term) Blocking Peptide - References

Seng, S., et al. Oncogene 28(3):378-389(2009)Wang, X.J., et al. PLoS ONE 4 (5), E5492 (2009):Seng, S., et al. Cancer Res. 67(18):8596-8604(2007)Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)Kim, T.A., et al. Gene 255(1):105-116(2000)