10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to PELP1

Purified Mouse Monoclonal Antibody
Catalog # AO2335a

Product Information

Application	WB, FC, E
Primary Accession	Q8IZL8
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2D6D11
Isotype	Mouse IgG2a
Calculated MW	119700
Description	This gene encodes a transcription factor which coactivates transcription of estrogen receptor responsive genes and corepresses genes activated by other hormone receptors or sequence-specific transcription factors. Expression of this gene is regulated by both members of the estrogen receptor family. This gene may be involved in the progression of several types of cancer. Alternative splicing results in multiple transcript variants.;
Immunogen	Purified recombinant fragment of human PELP1 (AA: 1031-1180) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Additional Information

Gene ID	27043
Other Names	MNAR; P160
Dilution	WB~~1:1000 FC~~1:10~50 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to PELP1 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

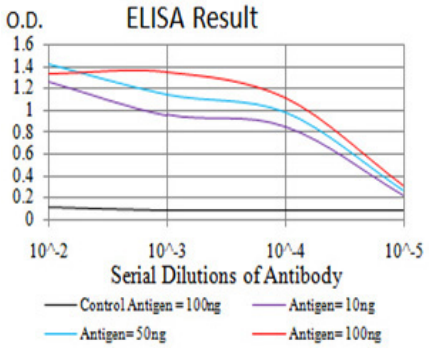
Name	PELP1

Synonyms	HMX3, MNAR
Function	Coactivator of estrogen receptor-mediated transcription and a corepressor of other nuclear hormone receptors and sequence-specific transcription factors (PubMed:14963108). Plays a role in estrogen receptor (ER) genomic activity when present in the nuclear compartment by activating the ER target genes in a hormonal stimulation dependent manner. Can facilitate ER non-genomic signaling via SRC and PI3K interaction in the cytosol. Plays a role in E2-mediated cell cycle progression by interacting with RB1. May have important functional implications in ER/growth factor cross-talk. Interacts with several growth factor signaling components including EGFR and HRS. Functions as the key stabilizing component of the Five Friends of Methylated CHTOP (5FMC) complex; the 5FMC complex is recruited to ZNF148 by methylated CHTOP, leading to desumoylation of ZNF148 and subsequent transactivation of ZNF148 target genes. Component of the PELP1 complex involved in the nucleolar steps of 28S rRNA maturation and the subsequent nucleoplasmic transit of the pre-60S ribosomal subunit. Regulates pre-60S association of the critical remodeling factor MDN1 (PubMed:21326211). May promote tumorigenesis via its interaction with and modulation of several oncogenes including SRC, PI3K, STAT3 and EGFR. Plays a role in cancer cell metastasis via its ability to modulate E2-mediated cytoskeleton changes and cell migration via its interaction with SRC and PI3K.
Cellular Location	Nucleus, nucleolus. Nucleus, nucleoplasm. Nucleus. Cytoplasm Note=Mainly found in the nucleoplasm, with low levels detected in the cytoplasm (By similarity). Also found associated with the plasma membrane. Mainly in cytoplasm in a subset of breast tumors Localization is widely deregulated in endometrial cancers with predominantly cytoplasm localization in high-grade endometrial tumors (PubMed:16140940). {ECO:0000250|UniProtKB:Q9DBD5, ECO:0000269|PubMed:16140940}
Tissue Location	Widely expressed..

References

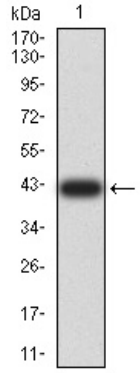
1.BMC Cancer. 2013 Mar 14;13:115. ; 2.Oncol Rep. 2012 Dec;28(6):2035-42. ;

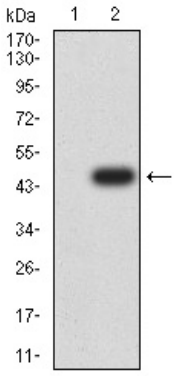
Images



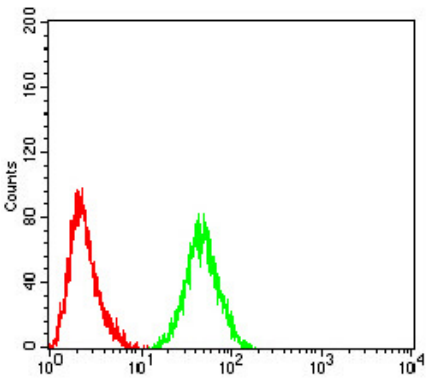
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

Western blot analysis using PELP1 mAb against human PELP1 (AA: 1031-1180) recombinant protein. (Expected MW is 42 kDa)





Western blot analysis using PELP1 mAb against HEK293 (1) and PELP1 (AA: 1031-1180)-hIgGFc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of Hela cells using PELP1 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.