

KD-Validated Anti-PELP1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1655

Product Information

Application	WB, FC
Primary Accession	Q8IZL8
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1145
Calculated MW	119700
Gene Name	PELP1
Aliases	Proline, Glutamate And Leucine Rich Protein 1; MNAR; Modulator Of Non-Genomic Activity Of Estrogen Receptor; Proline-, Glutamic Acid- And Leucine-Rich Protein 1; Transcription Factor HMX3; Proline, Glutamic Acid And Leucine Rich Protein 1; Proline And Glutamic Acid Rich Nuclear Protein; P160; HMX3
Immunogen	A synthesized peptide derived from human PELP1

Additional Information

Gene ID	27043
Other Names	Proline-, glutamic acid- and leucine-rich protein 1, Modulator of non-genomic activity of estrogen receptor, Transcription factor HMX3, PELP1, HMX3, MNAR

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..

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