

PELP1 Antibody (Center R759) Blocking peptide
Synthetic peptide
Catalog # BP11872c**Specification**

PELP1 Antibody (Center R759) Blocking peptide - Product InformationPrimary Accession [Q8IZL8](#)**PELP1 Antibody (Center R759) Blocking peptide - 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

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.

PELP1 Antibody (Center R759) Blocking peptide - 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..

PELP1 Antibody (Center R759) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PELP1 Antibody (Center R759) Blocking peptide - Images**PELP1 Antibody (Center R759) Blocking peptide - Background**

PELP1 is a coactivator of estrogen receptor (see ESR1; MIM133430)-mediated transcription and a corepressor of other nuclearhormone receptors and sequence-specific transcription factors (Choiet al., 2004 [PubMed 15456770]).

PELP1 Antibody (Center R759) Blocking peptide - References

Nair, S.S., et al. EMBO Rep. 11(6):438-444(2010)Habashy, H.O., et al. Breast Cancer Res. Treat. 120(3):603-612(2010)Vadlamudi, R.K., et al. J. Steroid Biochem. Mol. Biol. 118 (4-5), 211-218 (2010)
:Tzelepi, V., et al. Virchows Arch. 454(1):41-53(2009)Grivas, P.D., et al. Cell. Oncol. 31(3):235-247(2009)