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PDIA6 Antibody (Center K159) Blocking Peptide

Synthetic peptide
Catalog # BP6662b

Specification

PDIA6 Antibody (Center K159) Blocking Peptide - Product Information

Primary Accession Q15084

PDIA6 Antibody (Center K159) Blocking Peptide - Additional Information

Gene ID 10130

Other Names
Protein disulfide-isomerase A6, Endoplasmic reticulum protein 5, ER protein 5, ERp5, Protein disulfide isomerase P5, Thioredoxin domain-containing protein 7, PDIA6, ERP5, P5, TXNDC7

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6662b was selected from the Center region of human PDIA6. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PDIA6 Antibody (Center K159) Blocking Peptide - Protein Information

Name PDIA6

Synonyms ERP5, P5, TXNDC7

Function
May function as a chaperone that inhibits aggregation of misfolded proteins (PubMed:12204115). Negatively regulates the unfolded protein response (UPR) through binding to UPR sensors such as ERN1, which in turn inactivates ERN1 signaling (PubMed:24508390). May also regulate the UPR via the EIF2AK3 UPR sensor (PubMed:24508390). Plays a role in platelet aggregation and activation by agonists such as convulxin, collagen and thrombin (PubMed:15466936).

Cellular Location
Endoplasmic reticulum lumen. Cell membrane. Melanosome. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545)

Tissue Location
Expressed in platelets (at protein level).

PDIA6 Antibody (Center K159) Blocking Peptide - Protocols

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

- Blocking Peptides

PDIA6 Antibody (Center K159) Blocking Peptide - Images

PDIA6 Antibody (Center K159) Blocking Peptide - Background

Protein disulfide isomerases (EC 5.3.4.1), such as PDIA6, are endoplasmic reticulum (ER) resident proteins that catalyze formation, reduction, and isomerization of disulfide bonds in proteins and are thought to play a role in folding of disulfide-bonded proteins.

PDIA6 Antibody (Center K159) Blocking Peptide - References

Hayano,T.,Gene 164 (2), 377-378 (1995)