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P4HA2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7393a

Specification

P4HA2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O15460

P4HA2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8974

Other Names
Prolyl 4-hydroxylase subunit alpha-2, 4-PH alpha-2, Procollagen-proline, 2-oxoglutarate-4-dioxygenase subunit alpha-2, P4HA2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7393a was selected from the N-term region of human P4HA2. 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.

P4HA2 Antibody (N-term) Blocking Peptide - Protein Information

Name P4HA2

Function
Catalyzes the post-translational formation of 4- hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins.

Cellular Location
Endoplasmic reticulum lumen.

Tissue Location
Expressed in the heart, placenta, lung and pancreas.

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P4HA2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

P4HA2 Antibody (N-term) Blocking Peptide - Images

P4HA2 Antibody (N-term) Blocking Peptide - Background

P4HA2 is a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains.

P4HA2 Antibody (N-term) Blocking Peptide - References

Koivunen,P., J. Biol. Chem. 281 (39), 28712-28720 (2006)Grimmer,C., Am. J. Pathol. 169 (2), 491-502 (2006)Kukkola,L., J. Biol. Chem. 278 (48), 47685-47693 (2003)