

HSD17B12 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9351c**Specification**

HSD17B12 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q53GQ0](#)**HSD17B12 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 51144

Other Names

Estradiol 17-beta-dehydrogenase 12, 17-beta-hydroxysteroid dehydrogenase 12, 17-beta-HSD 12, 3-ketoacyl-CoA reductase, KAR, 131-, HSD17B12

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.

HSD17B12 Antibody (Center) Blocking Peptide - Protein InformationName HSD17B12 ([HGNC:18646](#))

Synonyms SDR12C1

Function

Catalyzes the second of the four reactions of the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process, allows the addition of two carbons to the chain of long- and very long-chain fatty acids/VLCFAs per cycle. This enzyme has a 3-ketoacyl-CoA reductase activity, reducing 3-ketoacyl-CoA to 3- hydroxyacyl-CoA, within each cycle of fatty acid elongation. Thereby, it may participate in the production of VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May also catalyze the transformation of estrone (E1) into estradiol (E2) and play a role in estrogen formation.

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location

Expressed in most tissues tested. Highly expressed in the ovary and mammary. Expressed in platelets

HSD17B12 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HSD17B12 Antibody (Center) Blocking Peptide - Images

HSD17B12 Antibody (Center) Blocking Peptide - Background

The enzyme 17-beta hydroxysteroid dehydrogenase-12 (HSD17B12) uses NADPH to reduce 3-ketoacyl-CoA to 3-hydroxyacyl-CoA during the second step of fatty acid elongation.

HSD17B12 Antibody (Center) Blocking Peptide - References

Plourde, M. J. Steroid Biochem. Mol. Biol. 116 (3-5), 134-153 (2009) Nagasaki, S. Mol. Cell. Endocrinol. 307 (1-2), 163-168 (2009) Bellemare, V. J. Steroid Biochem. Mol. Biol. 114 (3-5), 129-134 (2009)