

DGAT2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP9686a**Specification**

DGAT2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96PD7](#)**DGAT2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 84649**Other Names**

Diacylglycerol O-acyltransferase 2, Acyl-CoA retinol O-fatty-acyltransferase, ARAT, Retinol O-fatty-acyltransferase, Diglyceride acyltransferase 2, DGAT2

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.

DGAT2 Antibody (N-term) Blocking Peptide - Protein Information**Name** DGAT2 ([HGNC:16940](#))**Function**

Essential acyltransferase that catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol and fatty acyl CoA as substrates. Required for synthesis and storage of intracellular triglycerides (PubMed:27184406). Probably plays a central role in cytosolic lipid accumulation. In liver, is primarily responsible for incorporating endogenously synthesized fatty acids into triglycerides (By similarity). Functions also as an acyl-CoA retinol acyltransferase (ARAT) (By similarity). Also able to use 1- monoalkylglycerol (1-MAkG) as an acyl acceptor for the synthesis of monoalkyl-monoacylglycerol (MAMAG) (PubMed:28420705).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Lipid droplet. Cytoplasm, perinuclear region

Tissue Location

Predominantly expressed in liver and white adipose tissue. Expressed at lower level in mammary gland, testis and peripheral blood leukocytes. Expressed in sebaceous glands of normal skin but

decreased psoriatic skin.

DGAT2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DGAT2 Antibody (N-term) Blocking Peptide - Images

DGAT2 Antibody (N-term) Blocking Peptide - Background

Acyl-CoA:diacylglycerol acyltransferase, or DGAT (EC 2.3.1.20), is responsible for the synthesis of triglycerides. It catalyzes a reaction in which diacylglycerol is covalently joined to long chain fatty acyl-CoAs.

DGAT2 Antibody (N-term) Blocking Peptide - References

Kantartzis, K., et al. Clin. Sci. 116(6):531-537(2009)# Stone, S.J., et al. J. Biol. Chem. 284(8):5352-5361(2009)# Yen, C.L., et al. J. Lipid Res. 49(11):2283-2301(2008)# Levin, M.C., et al. Am. J. Physiol. Endocrinol. Metab. 293 (6), E1772-E1781 (2007) # Payne, V.A., et al. J. Biol. Chem. 282(29):21005-21014(2007)# Yamada, S., et al. Oncogene 23(35):5901-5911(2004)# Wakimoto, K., et al. Biochem. Biophys. Res. Commun. 310(2):296-302(2003)