



# DGAT2 Polyclonal Antibody

<b>Catalog No</b>	BYab-05516
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	DGAT2 HMFN1045 UNQ738/PRO1433
<b>Protein Name</b>	Diacylglycerol O-acyltransferase 2 (EC 2.3.1.20) (Acyl-CoA retinol O-fatty-acyltransferase) (ARAT) (Retinol O-fatty-acyltransferase) (EC 2.3.1.76) (Diglyceride acyltransferase 2)
<b>Immunogen</b>	Synthesized peptide derived from part region of human protein. AA range 1-50
<b>Specificity</b>	DGAT2 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	42kD
<b>Cell Pathway</b>	Endoplasmic reticulum membrane ; Multi-pass membrane protein . Lipid droplet . Cytoplasm, perinuclear region .
<b>Tissue Specificity</b>	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.
<b>Function</b>	catalytic activity:Acyl-CoA + 1,2-diacylglycerol = CoA + triacylglycerol.,enzyme regulation:Inhibited by niacin.,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. Probably plays a central role in cytosolic lipid accumulation.,pathway:Glycerolipid metabolism; triacylglycerol biosynthesis.,similarity:Belongs to the diacylglycerol acyltransferase family.,tissue specificity:Predominantly expressed in liver and white adipose tissue. Expressed at lower level in mammary gland, testis and peripheral blood leukocytes.

Nanjing BYabscience technology Co.,Ltd



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**Background**

This gene encodes one of two enzymes which catalyzes the final reaction in the synthesis of triglycerides in which diacylglycerol is covalently bound to long chain fatty acyl-CoAs. The encoded protein catalyzes this reaction at low concentrations of magnesium chloride while the other enzyme has high activity at high concentrations of magnesium chloride. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011],

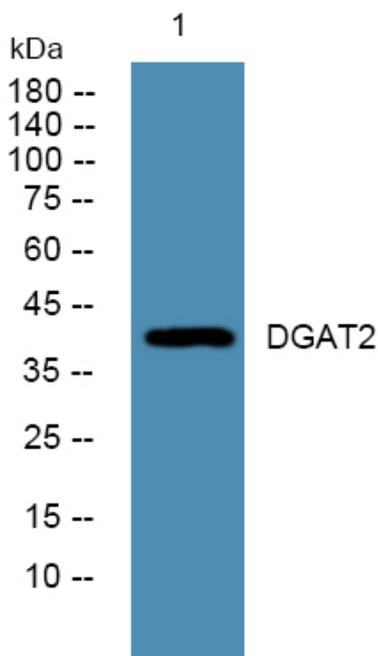
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western blot analysis of lysates from DU145 cells, primary antibody was diluted at 1:1000, 4° over night