bs-2332R **[Primary Antibody]**

DGAT1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 8694 **SWISS:** O75907

Target: DGAT1

Immunogen: KLH conjugated synthetic peptide derived from human DGAT1: 251-350/488.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Glucose and insulin are anabolic signals which upregulate the transcriptions of a series of lipogenic enzymes to convert excess carbohydrate into triglycerides for efficient energy storage. DGAT1 is a microsomal enzyme that assists in the synthesis of fatty acids into triglycerides. DGAT catalyzes the terminal and only committed step in triacylglycerol synthesis by using diacylglycerol (DAG) and fatty acyl CoA as substrates. DGAT plays a fundamental role in the metabolism of cellular diacylglycerol and is important in higher eukaryotes for physiologic processes involving triacylglycerol metabolism such as intestinal fat absorption, lipoprotein assembly, adipose tissue formation, and lactation. DGAT1 is involved in fat absorption in the intestine and in basal level triglyceride synthesis in adipose tissue, where it is more highly expressed.

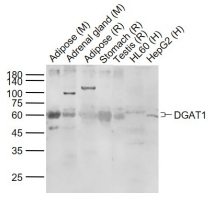
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Pig, Dog, Horse)

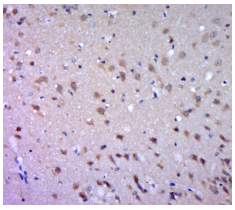
Predicted MW.: 55 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Mouse Adipose tissue lysates Lane 2: Mouse Adrenal gland tissue lysates Lane 3: Rat Adipose tissue lysates Lane 4: Rat Stomach tissue lysates Lane 5: Rat Testis tissue lysates Lane 6: Human HL60 cell lysates Lane 7: Human HepG2 cell lysates Primary: Anti-DGAT1 (bs-2332R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 60 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DGAT1) Polyclonal Antibody, Unconjugated (bs-2332R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=1.585]** Li et al. Increase of Autonomic Nerve Factors in Epicardial Ganglionated Plexi During Rapid Atrial Pacing Induced Acute Atrial Fibrillation. (2017) Med.Sci.Monit. 23:3657-3665 IHC ;Dog. 28749900
- **[IF=2]** Yankun Wang. et al. Investigation of seasonal changes in lipid synthesis and metabolism-related genes in the oviduct of Chinese brown frog (Rana dybowskii). EUR J HISTOCHEM. 2023 Oct 2; 67(4): 3890 IHC ;Rana dybowskii.

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