bs-8593R **[Primary Antibody]**

Ceramide glucosyltransferase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7357 **SWISS:** Q16739

Target: Ceramide glucosyltransferase

Immunogen: KLH conjugated synthetic peptide derived from human UGCG: 31-98/394.

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: bs-0701P is one synthetic peptide derived from human GCS. GCS (glucosylceramide synthase) may serve as a 'flippase' as well as a glucosyltransferase that transfers glucose to ceramide. Able to use UDP-galactose to synthesize galactosylceramide with 10% of efficiency with which it utilizes UDP-glucose. [Catalytic activity] UDP-glucose + N-acylsphingosine = UDP + D-glucosyl-N-acylsphingosine. Lipid metabolism; sphingolipid metabolism. [Subcellular location] Endoplasmic reticulum membrane; Multi-pass membrane protein. Belongs to the glycosyltransferase 2 family.

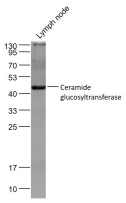
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

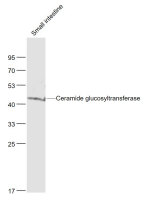
Predicted MW.: 45 kDa

Subcellular Location: Cell membrane ,Cytoplasm

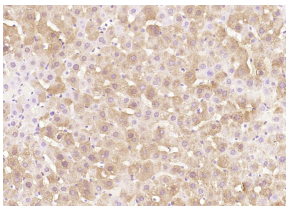
VALIDATION IMAGES



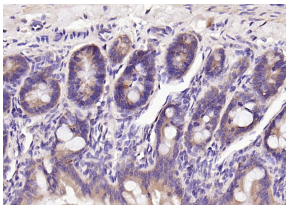
Sample: Lymph node (Mouse) Lysate at 40 ug Primary: Anti-Ceramide glucosyltransferase (bs-8593R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 45 kD



Sample: Small intestine (Mouse) Lysate at 40 ug Primary: Anti- Ceramide glucosyltransferase (bs-8593R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 45 kD



Paraformaldehyde-fixed, paraffin embedded (rat liver); 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 (Ceramide glucosyltransferase) Polyclonal Antibody, Unconjugated (bs-8593R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat small intestine); 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 (Ceramide glucosyltransferase) Polyclonal Antibody, Unconjugated (bs-8593R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.923]** Pietro Barbacini. et al. Novel Insight into the Serum Sphingolipid Fingerprint Characterizing Longevity. Int J Mol Sci. 2022 Jan;23(5):2428 WB ;Human. 10.3390/ijms23052428
- **[IF=4.757]** Tami Igarashi. et al. Horse-Derived Ceramide Accentuates Glucosylceramide Synthase and Ceramide Synthase 3 by Activating PPARβ/δ and/or PPARγ to Stimulate Ceramide Synthesis. BIOMEDICINES. 2023 Feb;11(2):548 WB ;Human. 36831084