Datasheet for ABIN5067487

anti-Sulfotyrosine antibody

3 Images

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Overview

Quantity:	100 µg
Target:	Sulfotyrosine
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Application:	ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Synthetic Sulfotyrosine conjugated to Keyhole Limpet Hemocyanin (KLH).
Clone:	7C5
Isotype:	IgG1
Specificity:	Specific for sulfated tyrosine residues on various proteins. Does not detect free Sulfotyrosine. Does not cross-react with phosphotyrosine.
Purification:	Protein G Purified

Target Details

Target:	Sulfotyrosine
Abstract:	Sulfotyrosine Products
Target Type:	Amino Acid

Target Details

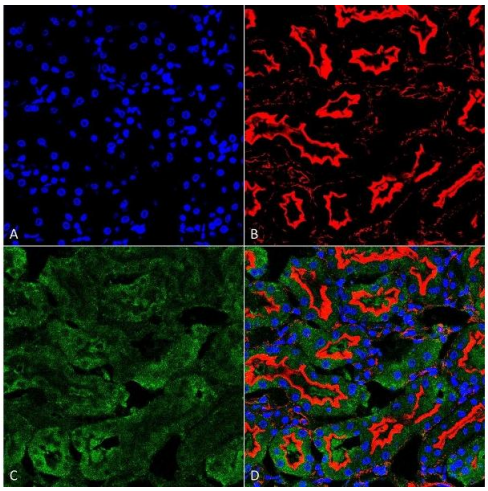
Background:	Tyrosine sulfation is a common post-translational protein modification catalyzed by tyrosylprotein sulfotransferase (TPST) (1). Sulfotyrosines mediate interactions between hirudin and thrombin, P-selectin glycoprotein ligand-1 and P-selectin, and von Willebrand factor and factor VIII. Tyrosine sulfation of certain receptors is required for several viruses and parasites to enter their hosts.

Application Details

Application Notes:	• WB (1:1000) • ICC/IF (1:50) • ELISA (1:1000) • IHC (1:25) • optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5067487 was sufficient for detection of Sulfotyrosine in 0.5 µg of Sulfotyrosine conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody.
Restrictions:	For Research Use only

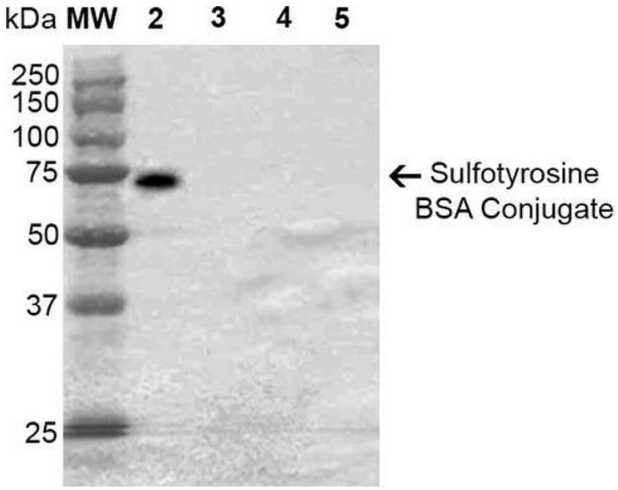
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % Sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C



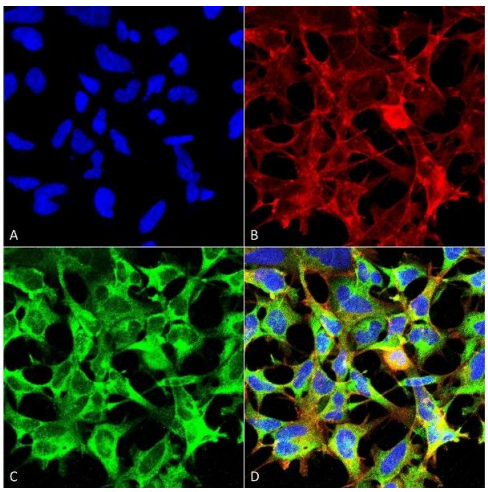
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-Sulfotyrosine Monoclonal Antibody, Clone 7C5 (ABIN5067487). Tissue: kidney. Species: Human. Fixation: Formalin fixed, paraffin embedded. Primary Antibody: Mouse Anti-Sulfotyrosine Monoclonal Antibody (ABIN5067487) at 1:25 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse IgG: Alexa Fluor 488. Counterstain: Actin-binding Phalloidin-Alexa Fluor 633, DAPI (blue) nuclear stain. Magnification: 63X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C) Sulfotyrosine Antibody (D) Composite



Western Blotting

Image 2. Western Blot analysis of Sulfotyrosine-BSA Conjugate showing detection of 67 kDa Sulfotyrosine-BSA using Mouse Anti-Sulfotyrosine Monoclonal Antibody, Clone 7C5 . Lane 1: Molecular Weight Ladder (MW). Lane 2: Sulfotyrosine-BSA. Lane 3: Tyrosine-BSA. Lane 4: Phosphotyrosine-BSA. Lane 5: BSA. Load: 2 µg. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Sulfotyrosine Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min in RT. Predicted/Observed Size: 67 kDa.



Immunocytochemistry

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Sulfotyrosine Monoclonal Antibody, Clone 7C5 (ABIN5067487). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5 % Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Sulfotyrosine Monoclonal Antibody (ABIN5067487) at 1:50 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:1500 for 30-

60 min at RT. Counterstain: Phalloidin Alexa Fluor 633 F-Actin stain, DAPI (blue) nuclear stain at 1:250, 1:50000 for 30-60 min at RT. Localization: Cytoplasmic. Magnification: 20X (2X Zoom). (A) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C) Sulfotyrosine Antibody. (D) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.