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Datasheet for ABIN5067469 anti-Dityrosine antibody

4 Images



Overview

Quantity:	100 µg
Target:	Dityrosine (DT)
Reactivity:	Please inquire
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	Synthetic Dityrosine conjugated to Keyhole Limpet Hemocyanin (KLH).
Clone:	10A6
Isotype:	lgG1
Specificity:	Specific for dityrosine modified proteins. Does not cross-react with 3,5-dibromotyrosine or bromotyrosine modified proteins.
Purification:	Protein G Purified

Target Details

Target:	Dityrosine (DT)
Alternative Name:	Dityrosine (DT Products)
Target Type:	Dipeptide

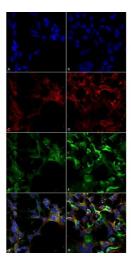
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Background:

ROS such as hydrogen peroxide (H2O2), superoxide, and hydroxyl radicals can react with both the backbone and the side chains of proteins, leading to backbone cleavage and side-chain modifications, respectively. Peroxidases, UV radiation, and hydroxyl radicals catalyze the formation of tyrosyl radicals which then react to form cross-links between proteins (1). This produces dityrosine, a metabolically stable biomarker of protein oxidation (2).

Application Details

Application Notes:	 WB (1:1000) ICC/IF (1:50) FACS (1:50) FCM (1:50) ELISA (1:1000) optimal dilutions for assays should be determined by the user.
Comment:	A 1:1000 dilution of ABIN5067469 was sufficient for detection of dityrosine in 1 μ g of Dityrosine 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



kDa	MW	2	3
250	_		
150	-		
100	-		
75	-		
50	-		
37	and a		
			-
			-
25	-		-
25 20	Statements.	(To be stated	-

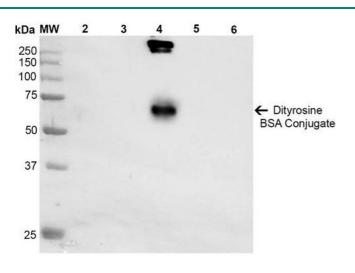
Immunocytochemistry

Immunocytochemistry/Immunofluorescence Image 1. analysis using Mouse Anti-Dityrosine Monoclonal Antibody, Clone 10A6 (ABIN5067469). Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5 % Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Dityrosine Monoclonal Antibody (ABIN5067469) 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,C,E,G) -Untreated. (B,D,F,H) - Cells cultured overnight with 50 µM H2O2. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alexa Fluor 633 F-Actin stain. (E,F) Dityrosine Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

Western Blotting

Image 2. Western Blot analysis of Human Cervical Cancer cell line (HeLa) showing detection of Dityrosine-BSA using Mouse Anti-Dityrosine Monoclonal Antibody, Clone 10A6 . Lane 1: Molecular Weight Ladder (MW). Lane 2: HeLa cell lysate. Lane 3: H2O2 treated HeLa cell lysate. Load: 12 µg. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Dityrosine 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.

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Western Blotting

Image 3. Western Blot analysis of Dityrosine-BSA Conjugate showing detection of 67 kDa Dityrosine-BSA using Mouse Anti-Dityrosine Monoclonal Antibody, Clone 10A6 . Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA. Lane 3: 3,5-Dibromotyrosine-BSA. Lane 4: Dityrosine-BSA. Lane 5: Bromotyrosine-BSA. Lane 6: 7-ketocholesterol-BSA. Load: 1 µg. Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Dityrosine 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.

Please check the product details page for more images. Overall 4 images are available for ABIN5067469.