

## Mouse Dityrosine Monoclonal Antibody | anti-DT antibody

Dityrosine Antibody, Clone 7D4: RPE

| CATALOG # | HOST  | REACTIVITY          | APPLICATIONS                                                 |
|-----------|-------|---------------------|--------------------------------------------------------------|
| AAA104111 | Mouse | Species Independent | ELISA, Immunofluorescence, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

Dityrosine; Monoclonal Antibody; Dityrosine Antibody; Clone 7D4: RPE; Mouse Anti-Dityrosine (DT) Monoclonal IgG1; Dityrosine Antibody: RPE; Dityrosine (DT) Antibody; DT Antibody; DY Antibody; anti-DT antibody

### PRODUCT SPECIFICATIONS

|                                              |                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Host                                         | Mouse                                                                                                                        |
| Reactivity                                   | Species Independent                                                                                                          |
| Clonality                                    | Monoclonal                                                                                                                   |
| Isotype                                      | IgG1                                                                                                                         |
| Clone Number                                 | 7D4                                                                                                                          |
| Specificity                                  | Specific for dityrosine modified proteins. Does not cross-react with 3,5-dibromotyrosine or bromotyrosine modified proteins. |
| Purity/Purification                          | Protein G Purified                                                                                                           |
| Concentration                                | 1 mg/ml (varies by lot)                                                                                                      |
| Applicable Applications for anti-DT antibody | ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                 |
| Target                                       | Dityrosine                                                                                                                   |
| Immunogen                                    | Synthetic Dityrosine conjugated to Keyhole Limpet Hemocyanin (KLH).                                                          |
| Conjugate                                    | RPE                                                                                                                          |
| Storage Buffer                               | PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide                                                                                 |
| Preparation and Storage                      | Store at -20 degree C.                                                                                                       |

### IMAGES



#### WB (Western Blot)

Western Blot analysis of Dityrosine-BSA Conjugate showing detection of 67 kDa Dityrosine protein using Mouse Anti-Dityrosine Monoclonal Antibody, Clone 7D4. 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 ug. 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.



#### ICC (Immunocytochemistry)

Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Dityrosine Monoclonal Antibody, Clone 7D4. Tissue: Embryonic kidney cells (HEK293) cultured overnight with 50 uM H<sub>2</sub>O<sub>2</sub>. Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Dityrosine Monoclonal Antibody 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) Dityrosine Antibody. (D) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

|                                                |                                                                                                                      |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Product Categories/Family for anti-DT antibody | Antibodies; Cancer; Oxidative Stress; Protein Oxidation; Cell Signaling; Post-translational Modifications; Oxidation |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/dityrosine-antibody-clone-7d4-immunofluorescence-immunocytochemistry-western-blot-elisa/104111>