

## Mouse anti-ALL 7-Ketocholesterol Monoclonal Antibody | anti-7-KC antibody

7-Ketocholesterol Antibody, Clone 3F7: RPE

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                 |
|-----------|-------|------------|--------------------------------------------------------------|
| AAA104066 | Mouse | ALL        | ELISA, Immunofluorescence, Immunocytochemistry, Western Blot |

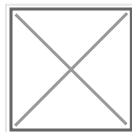
### PRODUCT SYNONYMS

7-Ketocholesterol; Monoclonal Antibody; 7-Ketocholesterol Antibody; Clone 3F7: RPE; Mouse Anti-7-Ketocholesterol (7-KC) Monoclonal IgG3; 7-Ketocholesterol Antibody: RPE; 7-Ketocholesterol [7-KC] Antibody; 7-KC Antibody; 7-ketocholesterol (7-KC) Antibody; 7KC Antibody; 7KC-Modified Keyhole-Lympet Hemocyanine Antibody; 7KC-Modified KLH Antibody; anti-7-KC antibody

### PRODUCT SPECIFICATIONS

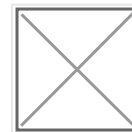
|                                                |                                                                                                                                                                                                                   |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                             |
| Reactivity                                     | ALL                                                                                                                                                                                                               |
| Clonality                                      | Monoclonal                                                                                                                                                                                                        |
| Isotype                                        | IgG3                                                                                                                                                                                                              |
| Clone Number                                   | 3F7                                                                                                                                                                                                               |
| Specificity                                    | Specific for 7-ketocholesterol modified proteins.                                                                                                                                                                 |
| Purity/Purification                            | Protein G Purified                                                                                                                                                                                                |
| Form/Format                                    | PBS pH 7.4, 50% glycerol, 0.09% Sodium Azide                                                                                                                                                                      |
| Concentration                                  | 1 mg/ml (varies by lot)                                                                                                                                                                                           |
| Applicable Applications for anti-7-KC antibody | ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                      |
| Immunogen                                      | Synthetic 7-Ketocholesterol conjugated to Keyhole Limpet Hemocyanin (KLH).                                                                                                                                        |
| Certificate of Analysis                        | A 1:1000 dilution of SMC-513 was sufficient for detection of 7-Ketocholesterol in 2 µg of 7-ketocholesterol conjugated to BSA by ECL immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary Antibody. |
| Research Areas                                 | Cancer, Lipid peroxidation, Oxidative Stress                                                                                                                                                                      |
| Preparation and Storage                        | Ships on blue ice. Store at -20°C; 1 year+ Avoid freeze/thaw cycle.                                                                                                                                               |

### IMAGES



#### WB (Western Blot)

Western Blot analysis of 7-Ketocholesterol-BSA Conjugate showing detection of 67 kDa 7-Ketocholesterol protein using Mouse Anti-7-Ketocholesterol Monoclonal Antibody, Clone 3F7. Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (0.5 ug). Lane 3: BSA (2.0 ug). Lane 4: 7-ketocholesterol-BSA (0.5 ug). Lane 5: 7-ketocholesterol-BSA (2.0 ug). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-7-Ketocholesterol 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-7-Ketocholesterol Monoclonal Antibody, Clone 3F7. Tissue: Embryonic kidney epithelial cell line (HEK293). Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-7-Ketocholesterol 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. Magnification: 20X (2X Zoom). (A,C,E,G) - Untreated. (B,D,F,H) - Cells cultured overnight with 50 uM H2O2. (A,B) DAPI (blue) nuclear stain. (C,D) Phalloidin Alex Fluor 633 F-Actin stain. (E,F) 7-Ketocholesterol Antibody. (G,H) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-7-KC antibody | Lipid peroxidation occurs when oxidizing agents attack carbon-carbon double bonds found in unsaturated lipids. In addition to membrane degradation, oxidation end-products have been found to damage cell viability through their mutagenic and toxic properties. These downstream functional consequences facilitate the development of disease and premature aging. 7-ketocholesterol (7-KC) is a biomarker of lipoprotein cholesterol oxidation. |
| Product Categories/Family for anti-7-KC antibody   | Antibodies; Cancer; Oxidative Stress; Lipid peroxidation                                                                                                                                                                                                                                                                                                                                                                                            |

**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/7-ketocholesterol-antibody-clone-3f7-immunofluorescence-immunocytochemistry-western-blot-elisa/104066>