M162-A64 Page 1

For Research Use Only. Not for use in diagnostic procedures.



Anti-p62/SQSTM1-Alexa Fluor® 647

CODE No. M162-A64

CLONALITY	Monoclonal
CLONE	5F2
ISOTYPE	Mouse IgG1 κ
QUANTITY	100 µL, 1 mg/mL

SOURCEPurified IgG from hybridoma supernatantIMMUNOGENHuman p62, 120-440 aa (recombinant)FORMURATIONPBS containing 1% BSA and 0.09% NaN3.

*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.

This antibody solution is stable for one year from the date of purchase when stored at 4°C.

APPLICATIONS-CONFIRMED

STORAGE

Immunocytochemistry5 μg/mLFlow cytometry1 μg/mL

SPECIES CROSS REACTIVITY on IC

Species	Human	Mouse	Rat	Hamster
Cells	Transfectant	Not Tested	Not Tested	Not Tested
Reactivity	+			

Entrez Gene ID 8878 (Human)

REFERENCES 1) Ichimura, Y., *et al.*, *J. Biol. Chem.* **283**, 22847-22857 (2008) 2) Komatsu, M., *et al.*, *Cell* **131**, 1149-1163 (2007)

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M15/1-3	anti- $\Delta tg12$ (6E5)
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M183 3	anti-Atg13 (5G4)
PD026	anti-Atg15 (504) anti Atg14 (polyclonal)
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DM040	anti Atg14 (410)
M150 3	anti-Atg16L (1E12)
M162 3	anti-Atg10L (11^{12}) anti p62/SOSTM1 (5E2)
M162 A 49	anti-p $02/SQSTW1 (5F2)$
M162 A50	anti-po2/SQSTM1-Alexa Fluor [®] 504 (SF2)
M162-A39	anti-po2/SQSTM1-Alexa Fluor $394(3F2)$
M102-A04	anti- $po2/SQSTM1$ -Alexa Fluor 047 (3F2)
FM043	anti-po2/SQSTWI (polycional)
PM000	anti-poz C-terminal (polycional)
M100-5	and-UVRAG (TH4)
PD017	anti-Becini i (polycional)
PD027	anti-Rubicon (polycional)
M170-5	anti-Rubicon (1Hb)
PIVIU 10-P	Positive control for anti-LCS antibody
1 10000 1	-
M175 2	anti a Tubulin (2E0)
M175-3	anti- α -Tubulin (2F9) anti α Tubulin Alaxa Eluor [®] 488 (2E9)
M175-3 M175-A48	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti ci Tubulin Alexa Fluor [®] 504 (2F0)
M175-3 M175-A48 M175-A59	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9)
M175-3 M175-A48 M175-A59 M175-A64	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9)
M175-3 M175-A48 M175-A59 M175-A64 PM054	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-3	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-3 M176-A48	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-A48 M176-A48	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-3 M176-A48 M176-A59 M176-A64	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-A64 M176-A59 M176-A64 PM062	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10) anti-EEA1 (polyclonal)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-A64 M176-A59 M176-A64 PM062 M178-3	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10) anti-EEA1 (polyclonal) anti-Calnexin (4F10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-A48 M176-A59 M176-A59 M176-A64 PM062 M178-3 M178-A48	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10) anti-EEA1 (polyclonal) anti-Calnexin (4F10) anti-Calnexin-Alexa Fluor [®] 488 (4F10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-3 M176-A48 M176-A59 M176-A64 PM062 M178-3 M178-A48 M178-A48	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10) anti-EEA1 (polyclonal) anti-Calnexin (4F10) anti-Calnexin-Alexa Fluor [®] 594 (4F10) anti-Calnexin-Alexa Fluor [®] 594 (4F10)
M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-3 M176-A48 M176-A59 M176-A64 PM062 M178-3 M178-A59 M178-A59 M178-A59	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10) anti-EEA1 (polyclonal) anti-Calnexin (4F10) anti-Calnexin-Alexa Fluor [®] 488 (4F10) anti-Calnexin-Alexa Fluor [®] 594 (4F10) anti-Calnexin-Alexa Fluor [®] 647 (4F10)
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M175-3 M175-A48 M175-A59 M175-A64 PM054 M176-3 M176-A48 M176-A59 M176-A64 PM062 M178-A64 PM062 M178-A59 M178-A48 M178-A59 M178-A64 PM060 M181-3 PM059 M179-3 M179-A48	anti- α -Tubulin (2F9) anti- α -Tubulin-Alexa Fluor [®] 488 (2F9) anti- α -Tubulin-Alexa Fluor [®] 594 (2F9) anti- α -Tubulin-Alexa Fluor [®] 647 (2F9) anti- α -Tubulin (polyclonal) anti-EEA1 (3C10) anti-EEA1-Alexa Fluor [®] 488 (3C10) anti-EEA1-Alexa Fluor [®] 594 (3C10) anti-EEA1-Alexa Fluor [®] 647 (3C10) anti-EEA1 (polyclonal) anti-Calnexin (4F10) anti-Calnexin-Alexa Fluor [®] 488 (4F10) anti-Calnexin-Alexa Fluor [®] 594 (4F10) anti-Calnexin-Alexa Fluor [®] 647 (4F10) anti-Calnexin (polyclonal) anti-Calnexin (polyclonal) anti-KDEL (1D5) anti-KDEL (polyclonal) anti-GM130 (5G8) anti-GM130-Alexa Fluor [®] 488 (5G8)
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Other related antibodies and kits are also available. Please visit our web site at <u>https://ruo.mbl.co.jp</u>				
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Immunocytochemistry

- 1) Spread the cells in the nutrient condition on a glass slide, then incubate in a CO₂ incubator for one night.
- 2) Remove the culture supernatant by careful aspiration.
- 3) Fix the cells by immersing the slide in 4% paraformaldehyde (PFA)/PBS for 10 minutes at room temperature (20~25°C).
- 4) Prepare a wash container such as a 500 mL beaker with a magnetic stirrer. Then wash the fixed cells on the glass slide by soaking the slide with a plenty of PBS in the wash container for 5 minutes. Take care not to touch the cells. Repeat another wash once more.
- 5) Immerse the slide in 100 μ g/mL digitonin in PBS for 10 minutes at room temperature.
- 6) Wash the slide in a plenty of PBS as in the step 4).
- Add 200 μL of Clear Back (human Fc receptor blocking reagent, MBL; code no. MTG-001) onto the cells and incubate for 5 minutes at room temperature.
- 8) Add 200 μL of the primary antibody diluted with 2% fetal calf serum (FCS)/PBS as suggested in the APPLICATIONS onto the cells and incubate for 60 minutes at room temperature. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
- 9) Wash the slide in a plenty of PBS as in the step 4).
- 10) Promptly add mounting medium onto the slide, then put a cover slip on it.

(Positive control for Immunocytochemistry; A549)



Immunocytochemical detection of p62 in A549 Upper: Starved A549 Lower: Nutrient A549

Flow cytometric analysis for adherent cells

- 1) Detach the cells from culture dish.
- 2) Wash the cells 1 time with 1 mL of washing buffer [PBS containing 2% fetal calf serum (FCS)].
- 3) Add 200 µL of 4% paraformaldehyde (PFA) to the cell pellet after tapping. Mix well, then fix the cells for 10 minutes at room temperature.
- 4) Wash the cells 2 times with 1 mL of washing buffer.
- 5) Add 200 μL of 100 μg/mL digitonin in PBS to the cell pellet after tapping. Mix well, then permeabilize the cells for 10 minutes at room temperature.
- 6) Wash the cells 1 time with 1 mL of washing buffer.
- 7) Resuspend the cells with washing buffer (5 x 10^6 cells/mL).
- 8) Add 100 μ L of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25°C). Remove supernatant by careful aspiration.
- Add 20 μL of Clear Back (human Fc receptor blocking reagent, MBL; code no. MTG-001) to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature.
- 10) Add 40 µL of the primary antibody at the concentration as suggested in the APPLICATIONS diluted in the washing buffer Mix well and incubate for 30 minutes at room temperature.
- 11) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration. Repeat another wash once more.
- 12) Resuspend the cells with 500 μ L of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; A549)





Flow cytometric detection of p62 in A549

- p62 staining in nutrient A549
 p62 staining in starved A549
- : Isotype control (M075-A64)