

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



# Anti- $\alpha$ -Tubulin-Alexa Fluor<sup>®</sup> 488

**CODE No.** M175-A48

**CLONALITY** Monoclonal  
**CLONE** 2F9  
**ISOTYPE** Mouse IgG2a  $\kappa$   
**QUANTITY** 100  $\mu$ L, 1 mg/mL

**SOURCE** Purified IgG from hybridoma supernatant  
**IMMUNOGEN** Human  $\alpha$ -Tubulin, N-terminal (synthetic peptide)  
**FORMURATION** PBS containing 1% BSA and 0.09% NaN<sub>3</sub>.

\*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.

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

## APPLICATIONS-CONFIRMED

Immunocytochemistry 10  $\mu$ g/mL

## SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster	Chicken
Cells	HeLa	NIH/3T3	NRK	CHO	MuH1
Reactivity	+	+	+	+	+

**Entrez Gene ID** 7846 (Human), 22142 (Mouse), 64158 (Rat)

**REFERENCES**  
1) Heald, R., and Nogales, E., *J. Cell Sci.* **115**, 3-4 (2002)  
2) Hall, J. L., and Cowan, N. J., *Nucleic Acids Res.* **13**, 207-223 (1985)

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**RELATED PRODUCTS**

M175-3	anti- $\alpha$ -Tubulin (2F9)
M175-A59	anti- $\alpha$ -Tubulin Alexa Fluor <sup>®</sup> 594 (2F9)
M175-A64	anti- $\alpha$ -Tubulin Alexa Fluor <sup>®</sup> 647 (2F9)
PM054	anti- $\alpha$ -Tubulin (polyclonal)
M176-3	anti-EEA1 (3C10)
M176-A48	anti-EEA1 Alexa Fluor <sup>®</sup> 488 (3C10)
M176-A59	anti-EEA1 Alexa Fluor <sup>®</sup> 594 (3C10)
M176-A64	anti-EEA1 Alexa Fluor <sup>®</sup> 647 (3C10)
PM062	anti-EEA1 (polyclonal)
M178-3	anti-Calnexin (4F10)
M178-A48	anti-Calnexin Alexa Fluor <sup>®</sup> 488 (4F10)
M178-A59	anti-Calnexin Alexa Fluor <sup>®</sup> 594 (4F10)
M178-A64	anti-Calnexin Alexa Fluor <sup>®</sup> 647 (4F10)
PM060	anti-Calnexin (polyclonal)
M181-3	anti-KDEL (1D5)
PM059	anti-KDEL (polyclonal)
M179-3	anti-GM130 (5G8)
M179-A48	anti-GM130 Alexa Fluor <sup>®</sup> 488 (5G8)
M179-A59	anti-GM130 Alexa Fluor <sup>®</sup> 594 (5G8)
M179-A64	anti-GM130 Alexa Fluor <sup>®</sup> 647 (5G8)
PM061	anti-GM130 (polyclonal)
PM063	anti-COX4 (polyclonal)
PM064	anti-Lamin B1 (polyclonal)
D115-3	anti-CENP-A (3-19)
PD030	anti-CENP-C (polyclonal)
K0171-3	anti-CENP-E (1H12)
PD031	anti-CENP-H (polyclonal)
PD032	anti-CENP-I/hMis6 (polyclonal)
D282-3	anti-CENP-K/ICEN37 (46F1)
PD018	anti-CENP-K (polyclonal)
D283-3	anti-CENP-L/ICEN33 (27E10)
D284-3	anti-CENP-M/ICEN39 (23F6)
D285-3	anti-CENP-N/ICEN32 (22F4)
PD020	anti-CENP-O (polyclonal)
D286-3	anti-CENP-T/ICEN22 (42F10)
PD019	anti-CENP-50 (polyclonal)
PD014	anti-LC3 (polyclonal) [WB]
PD015	anti-LC3 (polyclonal) [IC]
PM036	anti-LC3 (polyclonal) [WB, IP, IC, IHC, FCM]
PM046	anti-LC3 (polyclonal) [WB, IC]
M115-3	anti-LC3 (51-11) [WB]
M152-3	anti-LC3 (4E12) [WB, IP, IC, FCM]
M186-3	anti-LC3 (8E10) [WB]
M162-3	anti-p62 (5F2)
PM045	anti-p62 (polyclonal)
PM066	anti-p62 C-terminal (polyclonal)

WB: Western blotting

IP: Immunoprecipitation

IC: Immunocytochemistry

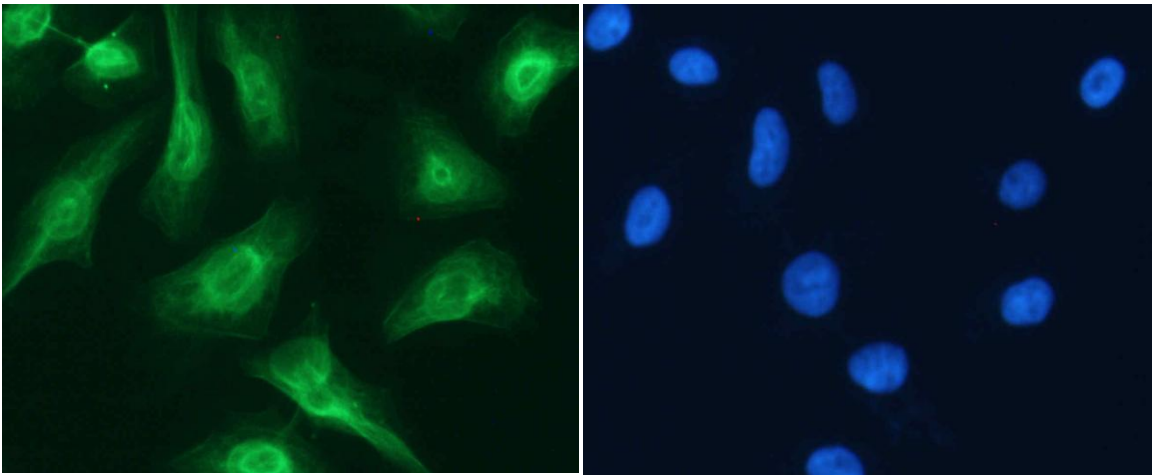
IHC: Immunohistochemistry

FCM: Flow cytometry

### **Immunocytochemistry**

- 1) Spread the cells in the nutrient condition on a glass slide, then incubate in a CO<sub>2</sub> 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 twice more.
- 5) Immerse the slide in 0.2% Triton X-100/PBS for 10 minutes at room temperature.
- 6) Wash the slide 2 times with PBS.
- 7) 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 30 minutes at room temperature. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
- 8) Wash the slide 2 times with PBS.
- 9) Counter stain with DAPI for 5 minutes at room temperature.
- 10) Wash the slide 2 times with PBS.
- 11) Wipe excess liquid from slide but take care not to touch the cells. Never leave the cells to dry.
- 12) Promptly add mounting medium onto the slide, then put a cover slip on it.

(Positive control for Immunocytochemistry; HeLa)



#### ***Immunocytochemical detection of $\alpha$ -Tubulin in HeLa***

Green: M175-A48

Blue: DAPI