

## Product datasheet for **TA501038AM**

### **TUBA8 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI2E9]**

#### **Product data:**

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI2E9  |
| Applications:           | FC, IF, IP, WB  |
| Recommended Dilution:   | WB 1:2000; IF 1:100; IP: 4ug/mL   |
| Reactivity:             | Human, Mouse, Rat   |
| Host:                   | Mouse   |
| Isotype:                | IgG2a   |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human TUBA8(NP_061816) produced in HEK293T cell.   |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 0.5 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                             |
| Conjugation:            | Biotin  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 50.1 kDa  |
| Gene Name:              | tubulin alpha 8   |
| Database Link:          | <a href="#">NP_061816</a><br><a href="#">Entrez Gene 500377 Rat</a> <a href="#">Entrez Gene 51807 Human</a><br><a href="#">Q9NY65</a> |



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**Background:**

Microtubules are cylindrical tubes of 20-25 nm in diameter. They are composed of protofilaments which are in turn composed of alpha- and beta-tubulin polymers. Each microtubule is polarized, at one end alpha-subunits are exposed (-) and at the other beta-subunits are exposed (+). Microtubules act as a scaffold to determine cell shape, and provide a backbone for cell organelles and vesicles to move on, a process that requires motor proteins. The major microtubule motor proteins are kinesin, which generally moves towards the (+) end of the microtubule, and dynein, which generally moves towards the (-) end. Microtubules also form the spindle fibers for separating chromosomes during mitosis.

**Synonyms:**

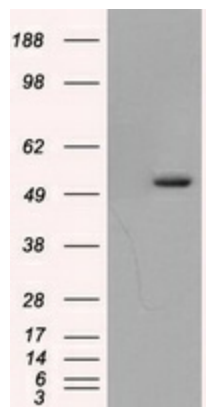
TUBAL2

**Protein Families:**

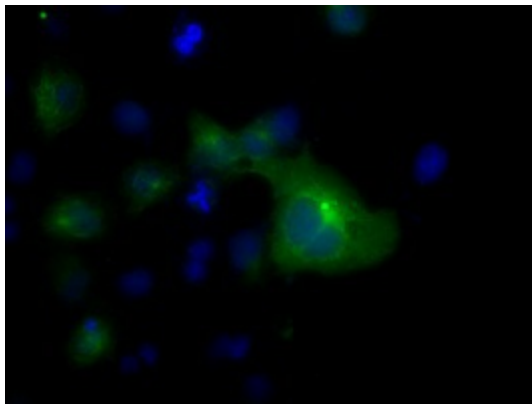
Druggable Genome

**Protein Pathways:**

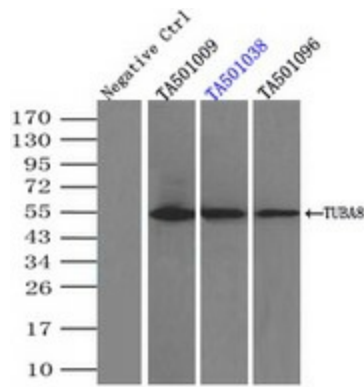
Gap junction, Pathogenic Escherichia coli infection

**Product images:**

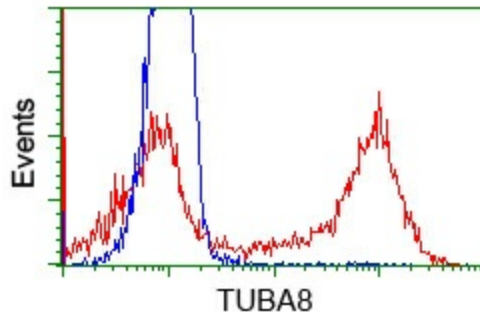
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TUBA8 ([RC211175], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TUBA8. Positive lysates [LY412867] (100ug) and [LC412867] (20ug) can be purchased separately from OriGene.



Anti-TUBA8 mouse monoclonal antibody ([TA501038]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TUBA8 ([RC211175]).



Immunoprecipitation (IP) of TUBA8 by using TrueMab monoclonal anti-TUBA8 antibodies (Negative control: IP without adding anti-TUBA8 antibody.). For each experiment, 500ul of DDK tagged TUBA8 overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-TUBA8 antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.



HEK293T cells transfected with either pCMV6-ENTRY TUBA8 ([RC211175]) (Red) or empty vector control plasmid (Blue) were immunostained with anti-TUBA8 mouse monoclonal ([TA501038]), and then analyzed by flow cytometry.