

30-2930: Anti-alpha-Tubulin Monoclonal Antibody (Clone: YOL1/34)

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| Clonality : | Monoclonal |
| Clone Name : | YOL1/34 |
| Application : | ICC,ELISA,ICC/IF,IHC,FACS,WB |
| Conjugate : | Unconjugated |
| Gene ID : | 7277 |
| Uniprot ID : | Q71U36 |
| Format : | Purified |
| Alternative Name : | TUBA |
| Isotype : | Rat IgG2a |
| Immunogen Information : | Yeast tubulin |

Description

The rat monoclonal antibody YOL1/34 recognizes an epitope of alpha-tubulin localized between amino acids 414-422. It has higher affinity for fixed microtubules than for native ones.

Product Info

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|----------------------------|---|
| Amount : | 0.1 mg |
| Purification : | Purified by protein-G affinity chromatography. |
| Content : | 1mg/ml, Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

Immunocytochemistry: Recommended dilution 4-8 µg/ml. **Western blotting:** Recommended dilution 1-2 µg/ml; reducing conditions. **Flow cytometry:** Recommended dilution: 8-12 µg/ml; intracellular staining.

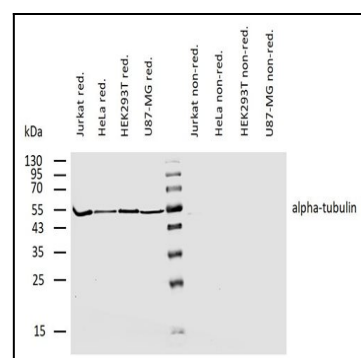


Figure 1: Western blotting analysis of human alpha-tubulin using rat monoclonal antibody YOL1/34 on lysates of various cell lines under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 µg/ml of rat anti-alpha-tubulin monoclonal antibody followed by IRDye800-conjugated anti-rat secondary antibody. A specific band was detected for alpha-tubulin at approximately 54 kDa.

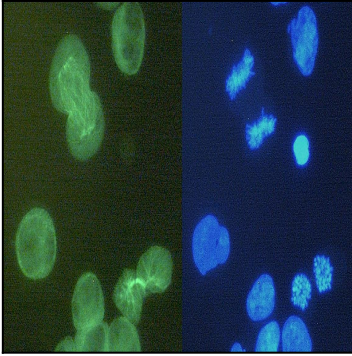


Figure 2: Immunocytochemistry staining of alpha-tubulin in K562 cells using purified rat monoclonal antibody YOL1/34 (concentration in sample 6 $\mu\text{g/ml}$, DAR FITC, left picture) vs. Hoechst 34580 nuclear staining (right picture).

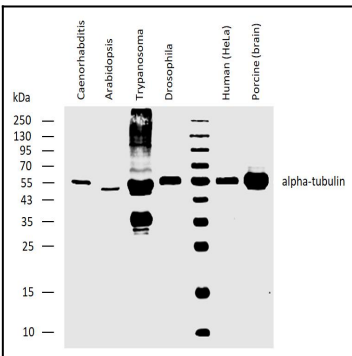


Figure 3: Western blotting analysis of human alpha-tubulin using rat monoclonal antibody YOL1/34 on lysates of *Caenorhabditis elegans*, *Arabidopsis thaliana*, *Trypanosoma brucei*, *Drosophila melanogaster*, human HeLa cell line, and porcine brain, all under reducing conditions. Each lane contains 20 μg of total protein. Nitrocellulose membrane was probed with 2 $\mu\text{g/ml}$ of rat anti-alpha-tubulin monoclonal antibody followed by IRDye800-conjugated anti-rat secondary antibody.

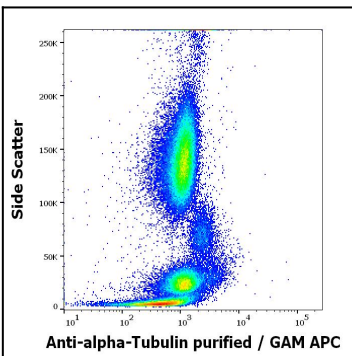


Figure 4: Flow cytometry intracellular staining pattern of human peripheral whole blood stained using anti-alpha-tubulin (YOL1/34) purified antibody (concentration in sample 8 $\mu\text{g/ml}$, GAM APC).

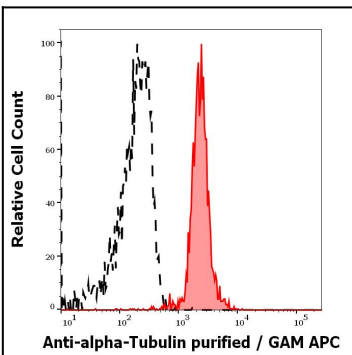


Figure 5: Separation of human monocytes stained using anti-alpha-tubulin (YOL1/34) purified antibody (concentration in sample 8 $\mu\text{g/ml}$, GAM APC, red-filled) from monocytes stained using mouse IgG1 isotype control (MOPC-21) purified antibody (concentration in sample 8 $\mu\text{g/ml}$, same as alpha-tubulin purified, GAM APC, black-dashed) in flow cytometry analysis (intracellular staining).