Datasheet: MCA77P

**Description:** RAT ANTI TUBULIN ALPHA:HRP

**Specificity:** TUBULIN ALPHA

**Format:** HRP

**Product Type:** Monoclonal Antibody

**Clone:** YL1/2

**Isotype:** IgG2a

**Quantity:** 0.1 mg

**RRID** AB_2021090

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Yeast

### Species Cross Reactivity

Reacts with: Ashbya, Human, Mouse, Dog, Rat, Pig, Drosophila, Saccharomyces, Pleurobrachia, Caenorhabditis, Dictyostelium discoideum, Xenopus, Pig-tailed macaque, Clytia sp., Arabidopsis, Strongylocentrotus purpuratus, Dendraster excentricus, Trypanosoma brucei, Potorous tridactylis, Bovine, Hemicentrotus pulcherrimus, Potato, Bombyx mori, Rhodnius prolixus, Beroe abyssicola

Does not react with: Nephrotoma suturalis, Fungal

Based on sequence similarity, is expected to react with: Birds, Echinoderm, Plants, Amphibia

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

### Buffer Solution

Phosphate buffered saline

### Preservative

0.01% Thiomersal

### Stabilisers

HRP Stabiliser ([BUF052A](http://BUF052A))
Approx. Protein Concentrations
IgG concentration 1.0 mg/ml

Immunogen
Yeast tubulin.

Fusion Partners
Spleen cells from immunized LOU rats were fused with cells of the Y3.Ag.1.2.3 rat myeloma cell line.

Specificity
Rat anti tubulin alpha antibody, clone YL1/2 recognizes the alpha subunit of tubulin, specifically binding tyrosylated Tubulin (Tyr-Tubulin) (Wehland et al. 1983). The epitope recognized by this antibody has been extensively studied and would appear to be a linear sequence requiring an aromatic residue at the C terminus, with the two adjacent amino acids being negatively charged (represented by Glu-Glu-Tyr in Tyr-Tubulin).

The antibody has been used in epitope tagging procedures to detect proteins tagged with a C-terminal Gly-Gly-Phe epitope. These sequence requirements have been reported to result in some cross-reactivity with other proteins in certain circumstances, including E. coli rec A and oxidized actin (Burns 1987).

Rat anti tubulin alpha antibody, clone YL1/2 is routinely tested in ELISA on tubulin.

Western Blotting
MCA77P is suitable for use as a loading control.

References


### Storage
Store at +4°C. DO NOT FREEZE.
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee
18 months from date of despatch.

### Health And Safety Information
Material Safety Datasheet documentation #10131 available at:

### Regulatory
For research purposes only

### Related Products

**Recommended Useful Reagents**

- AbGUARD® HRP STABILIZER PLUS (BUF052A)
- AbGUARD® HRP STABILIZER PLUS (BUF052B)
- AbGUARD® HRP STABILIZER PLUS (BUF052C)
- TMB CORE (BUF056A)
- TMB CORE+ (BUF062A)
- TMB SIGNAL+ (BUF054A)