## Datasheet: MCA77D680

### Description:
RAT ANTI TUBULIN ALPHA:DyLight®680

### Specificity:
TUBULIN ALPHA

### Format:
DyLight®680

### Product Type:
Monoclonal Antibody

### Clone:
YL1/2

### Isotype:
IgG2a

### Quantity:
0.1 mg

### RRID
AB_2021093

### 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>
</tr>
</thead>
<tbody>
<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>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<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 DyLight®680 - liquid

### Max Ex/Em
<table>
<thead>
<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DyLight®680</td>
<td>692</td>
<td>712</td>
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</tbody>
</table>

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

### Buffer Solution
Phosphate buffered saline
Preservative
Stabilisers
0.09% Sodium Azide (NaN₃)

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
MCA77D680 is suitable for use as a loading control.

References


37. Kerr, G.W. et al. (2016) PP2A(Cdc55)'s role in reductional chromosome segregation during...

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch

Acknowledgements

DyLight® is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

Health And Safety Information


Regulatory

For research purposes only