### Product Details

**RRID**: AB_2021092

**Applications**

<table>
<thead>
<tr>
<th>Technique</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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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<tr>
<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®750 - liquid

**Max Ex/Em**

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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</thead>
<tbody>
<tr>
<td>DyLight®750</td>
<td>752</td>
<td>778</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 MCA77D750 is suitable for use as a loading control.

References

13. Zenner, H.L. et al. (2011) Analysis of Rab GTPase-Activating Proteins Indicates that Rab1a/b and Rab43 are Important for Herpes Simplex Virus 1 Secondary Envelopment. J Virol. 85:
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
Material Safety Datasheet documentation #10040 available at:

Regulatory
For research purposes only

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