

# PRODUCT SPECIFICATION

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## HYB 330-01 Anti MKS1 (MAP Kinase Substrate 1)

*Mouse monoclonal antibody*

Article No.	60182 (0.2 mL), 101090 (1.0 mL)		
Product Name	HYB 330-01 Anti MKS1 (MAP Kinase Substrate 1)		
Clone	34E10		
Subclass	IgG1 / kappa		
Description	<div>Preparation:Protein-A purified</div> <div>Concentration:1 mg/mL ± 10%, based on A<sub>280</sub>. See Certificate of Analysis for details.</div> <div>Solvent:PBS, pH 7.2 – 7.4</div> <div>Storage:-18 °C or colder</div>		
Antigen	MAP Kinase substrate 1 (MKS1) is a protein from <i>Arabidopsis</i> that is phosphorylated by MAP Kinase 4 (MPK4). MPK4 has been shown to be involved in a MKS1-dependent regulation of plant defences against pathogens (1-3).		
Immunogen	Selected peptide sequence from MKS1.		
Specificity	HYB 330-01 reacts specifically with MKS1 from plants as well as recombinant MKS1 expressed in <i>E. coli</i> . Depending upon extract, other non-specific bands may occasionally be seen. The antibody recognizes MKS1 regardless of the phosphorylation status of MKS1.		
Epitope Specificity	Not determined.		
Reactivity	HYB 330-01 (α-pep22) (2-3) reacts well with MKS1 in immuno-blots of SDS-PAGE separated plant and <i>E. coli</i> extracts. The antibody was screened by ELISA for recognition of recombinant MKS1 and immunoprecipitations from a range of <i>Arabidopsis</i> extracts have been successful.		
Culture Medium	Dulbecco's modified Eagle's medium with 10% fetal calf serum.		
Fusion Partner	X63-Ag8.653.		
Immunization	Female CF1xBalb/c F1 hybrid mice were immunized i.p. with immunogen conjugated to carrier protein.		
Application	<div>Method</div> <div>ELISA</div> <div>Immunoblotting</div> <div>Immunofluorescence</div> <div>Immunoprecipitation</div>	<div>Usability</div> <div>yes</div> <div>yes</div> <div>nd.</div> <div>yes</div>	<div>References</div> <div>2-3</div> <div>2-3</div>
References	<div>1) <b>Petersen et al.</b> (2000) Arabidopsis MAP Kinase 4 Negatively Regulates Systemic Acquired Resistance. <i>Cell</i>, 103, 1111-1120.</div> <div>2) <b>Andreasson et al.</b> (2005) The MAP kinase substrate MKS1 is a regulator of plant defence responses. <i>The EMBO Journal</i>, 24, 2579-2589.</div> <div>3) <b>Qiu JL, Fiil BK, Petersen K, Nielsen HB, Botanga CJ, Thorgrimsen S, Palma K, Suarez-Rodriguez MC, Sandbech-Clausen S, Lichota J, Brodersen P, Grasser KD, Mattsson O, Glazebrook J, Mundy J, Petersen M.</b> Arabidopsis MAP kinase 4 regulates gene expression through transcription factor release in the nucleus. <i>EMBO J.</i> 2008 Aug 20;27(16):2214-21.</div>		

### Conditions

For research use only. Not for use in diagnostic procedures. Not for therapeutic use or applications.

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