

Catalog #	1372
Synonyms	AHP2@A4, Histidine kinase,
Type	Monoclonal Antibody
Source	Hybridoma
Species	Arabidopsis thaliana
Tag	
Form	Liquid
Purity	> 98 % by SDS PAGE
Shipping	Ice pack

**Introduction**

Monoclonal antibodies against Arabidopsis thaliana phosphotransfer protein 2 (AHP2)

**Description**

Anti-AHP antibodies are indispensable reagents for scientists focused on unraveling of plant internal clock. Anti-AHP monoclonal antibodies were developed in Central European Institute of Technology (CEITEC), Brno, Czech Republic, as a unique tool for mapping of multistep phosphorelay signaling in *A. thaliana*. This antibody collection represents the most complex tool for mapping of plant stimuli signal transfer from sensor histidine kinase to nuclear response regulators, via histidine phosphotransfer proteins. AHP antibodies are suitable not only for qualitative investigation of magnesium dependent phosphotransfer relay, but also for quantification of particular sensor histidine kinases.

**Application**

Affinity Purification, Western Blotting, ELISA, Protein Array, Protein-Protein Interactions, Pull-down Assay. WB working dilution 1:10 000.

**Purification method**

Affinity chromatography on protein G.

**Formulation**

50 mM Tris-HCl pH 8 with 20 % of glycerol in final concentration 1 mg/ml.

**Specificity**

Use AHP2@A4 when you are interested in: - to confirm the role for the AHP2 protein in the control of plant water loss and in stomatal activity confirmed that AHP2 could form homo-dimers in protoplasts - in vivo and in vitro detection of AHP2 and AHP3 new interaction of AHP2 and AHP3 proteins with other proteins - quantification of protein interactions mediated by AHP2 and AHP3 - sub-cellular localization of AHP2 and AHP3 detection of splicing variants of AHP2 and AHP3 analysis of stability of AHP2 and AHP3

**Storage**

Flash frozen in liquid nitrogen. Store at -80 C. Avoid repeated freezing and thawing.

**Analyte specific reagent (ASR) manufactured under ISO 13485.  
Country of origin: Czech Republic**