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Anti-CSN5A/B Antibody

Catalog # AP54158

Product Information

Application	WB
Primary Accession	Q8LAZ7
Other Accession	Q9FVU9
Reactivity	Arabidopsis thaliana
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39731

Additional Information

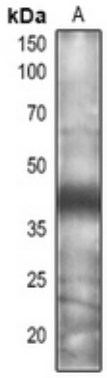
Gene ID	838899
Other Names	AJH1; CSN5B; COP9 signalosome complex subunit 5a; Signalosome subunit 5a; Jun activation domain-binding homolog 1; AJH2; CSN5A; COP9 signalosome complex subunit 5b; Signalosome subunit 5b; Jun activation domain-binding homolog 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of arabidopsis thaliana CSN5A/B. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/2000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CSN5A {ECO:0000303|PubMed:23424245}
Function	Probable protease subunit of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes such as photomorphogenesis and auxin and jasmonate responses. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of the SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF. In the complex, it probably acts as the catalytic center that mediates the cleavage of Nedd8 from cullins. It however has no metalloprotease activity by itself and requires the other subunits of the CSN complex (By similarity). The CSN complex is involved in repression of photomorphogenesis in darkness by regulating the activity of COP1-containing Ubl ligase complexes. The complex is also required for degradation of PSIAA6 by regulating the activity of the Ubl ligase

	SCF-TIR complex. Involved in CSN's deneddylation/derubylation activity (PubMed:15486099). Required for the deneddylation of all cullins (PubMed:15923347, PubMed:17307927). Essential for the structural integrity of the CSN holocomplex (PubMed:17307927).
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Ubiquitously expressed. Highly expressed in flowers and roots. Expressed at lower level in seedlings and siliques

Images



Western blot analysis of CSN5A/B expression in arabidopsis thaliana (A) whole cell lysates. (Predicted band size: 39; 40 kD; Observed band size: 40 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.