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product **AS06 130**

FtsH9 | ATP-dependent zinc metalloprotease FtsH9 (chloroplastic)

product information

Background	**FtsH** protease is important in chloroplast biogenesis and thylakoid maintenance. Nuclear genome of Arabidopsis thaliana contains 12 genes encoding FtsH proteins. Three of those gene products in Arabidopsis , can be targeted to mitochondria (FTSH3, FTSH4, and FTSH10), while the other nine (FTSH1, FTSH2, FTSH5 to FTSH9, FTSH11, and FTSH12) can enter the chloroplast. Synonyme: cell division protease FtsH homolog 9, chloroplastic.
Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* FtsH9 protein sequence Q9FIM2, At5g58870
Host	Rabbit
Clonality	Polyclonal
Purity	Affinity purified serum in PBS, pH 7.4
Format	Lyophilized in PBS pH 7.4
Quantity	2x200 µg
Reconstitution	For reconstitution add 182 µl of sterile water.
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
Tested applications	Western blot (WB)
Related products	AS11 1789S | FtsH2 positive control/quantitation standard AS11 1789 | anti-FtsH1-11 | ATP-dependent zinc metalloprotease FtsH1-11 AS16 3930 | anti-FtsH1 + FtsH5 | ATP-dependent zinc metalloprotease FtsH1 + FtsH5 (chloroplastic) AS16 3929 | anti-FtsH2 + FtsH8 | ATP-dependent zinc metalloprotease FtsH2 + FtsH8 (chloroplastic) AS07 204 | anti-FtsH3 + FtsH10 | ATP-dependent zinc metalloprotease FtsH3 + FtsH10 (mitochondrial) AS07 205 | anti-FtsH4 | ATP-dependent zinc metalloprotease FtsH4 (mitochondrial) AS05 094A | anti-FtsH6 | ATP-dependent zinc metalloprotease FtsH6 (chloroplastic) AS07 251 | anti-FtsH10 | ATP-dependent zinc metalloprotease FtsH10 (mitochondrial) Antibodies to other proteins involved in photosynthesis Plant protein extraction buffer Secondary antibodies

Application information

Recommended dilution	1 : 500 -1 : 1000 (WB)
Expected | apparent MW	87.8 | 74.36 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Additional information	Antibody recommended to be used on chloroplast and thylakoid samples. This antibody will not work with *Chlamydomonas reinhardtii.*
Selected references	to be added when available