

product **AS06 130**

FtsH9 | ATP-dependent zinc metalloprotease FtsH9 (chloroplatic)

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. Synonym: cell division protease FtsH homolog 9, chloroplatic.

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 (chloroplatic)
[AS16 3929](#) | anti-FtsH2 + FtsH8 | ATP-dependent zinc metalloprotease FtsH2 + FtsH8 (chloroplatic)
[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 (chloroplatic)
[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