FtsH1-11 | ATP-dependent zinc metalloprotease FtsH1-11

Cat. No. *APA-MR-002*

Lot. No. (See product label)

Product Name
FtsH1-11 | ATP-dependent zinc metalloprotease FtsH1-11

Host
Rabbit

Immunogen
KLH-conjugated peptide dereived from sequences of all known FtsH isoforms of Arabidopsis thaliana: FtsH1 Q39102 (At1g50250), FtsH2 O80860 (At2g30950), FtsH3 Q84WU8 (At2g29080), FtsH4 O80983 (At2g26140), FtsH5 Q9FH02 (At5g42270), FtsH6 Q1PDW5 (At5g15250), FtsH7 Q9SD67 (At3g47060), FtsH8 Q8W585 (At1g06430), FtsH9 Q9FIM2 (At5g58870), FtsH10 Q8VZI8 (At1g07510), FtsH11 Q9FGM0 (At5g53170) as well as 4 FtsH isoforms of Synechocystis sp. PCC6803NP_440330.1, NP_442160.1, NP_440797.1, NP_440525.1

Background
FtsH belong to a family of ATP dependent peptidases. Localized in a chloroplast are following isoforms: FTSH1 (synonymes AAA, FTSH, FTSH Protease 1), Ftsh2 (VAR2, VARIEGATED 2), FtsH5 (VAR1, VARIEGATED 1), FtsH6 (FTSH PROTEASE 6), FtsH7, FtsH8. FtsH9. Localized in mitochondria are following isoforms: FtsH3 (FTSH Protease 3), FtsH4, FtsH10, FtsH11.

Format
Lyophilized

Clonality
Polyclonal

Purity
Serum

Quantity
50 µl

Reactivity
A. acetabulum, A. thaliana, B. hypnoides (ulvophytes), G. theta, H. vulgare, Synechocystis sp., T. pseudonana, Z. mays

Confirmed reactivity
Acetabularia acetabulum, Arabidopsis thaliana, Bryopsis hypnoides (ulvophytes), Guillardia theta, Hordeum vulgare, Synechocystis sp., Thalassiosira pseudonana, Thalassiosira punctigera, Zea mays

Predicted reactivity
Diatoms including Phaeodactylum tricornutum, dicots, Chlamydomonas reinhardtii, Monocots; Nannochloropsis gaditana, Solanum lycopersicum

Not reactive in
No confirmed exceptions from predicted reactivity are currently known

Reconstitution
For reconstitution add 50 µl of sterile water

Expected/apparent MW
A. thaliana: FtsH1:76.7, FtsH2: 74, FtsH5: 75.2, FtsH6: 74.5, FtsH7: 87.8, FtsH8: 73, FtsH9:87.8 kDa (chloroplastic); FtsH3: 89.3, FtsH4: 77.2, FtsH10: 89.5 kDa, FtsH11:88.7 kDa (mitochondrial)

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Tested applications

Blue Native PAGE (BN-PAGE), Western blot (WB)

Recommended dilution

1 : 500-1 : 2000 (WB)

Storage

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

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