

Product datasheet

Anti-PsbQ antibody ab65568

Overview

Product name	Anti-PsbQ antibody
Description	Rabbit polyclonal to PsbQ
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Tobacco
Immunogen	<p>Recombinant full length protein corresponding to PsbQ. The immunogen species is Spinacia oleracea (Spinach).</p> <p>Sequence:</p> <p>MAQAMASMAGLRGASQAVLEGSLQISGSNRLSGPTTSRVAVPKMGLNIRA QQVSAEAETS RRAMLGFVAAGLASGSFVKAVLAEARPIVVGPPPPLSG GLPGTENSQARDGTLPTYTKDR FYLQPLPPTAAQRAKVSASEILNVK QFIDRKAWPSLQNDLRLRASYLRYDLKTVISAKP KDEKKSLELTSKL FSSIDNLDHAAKIKSPTEAEKYYGQTVSNINEVLAKLG</p> <p>Database link: P12301</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	Chloroplast proteins from tomato (<i>Lycopersicon esculentum</i>); spinach (<i>Spinacia oleracea</i>), tobacco (<i>Nicotiana tabacum</i>) and membrane proteins from <i>Synechocystis</i> sp. PCC 6803.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium Azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab65568** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/2000. Predicted molecular weight: 25 kDa.

Target

Relevance

PsbQ, also known as 16 kDa protein, is one of the three components (PsbO, PsbP and PsbQ) of oxygen evolving complex (OEC) in higher plants. The cyanobacterial photosystem II have five associated extrinsic proteins, PsbO, PsbP, PsbQ, PsbU and PsbV. This class of subunits is located on the lumen face of the thylakoid membranes. PsbQ has a regulatory role on the water oxidation machinery. The lack of PsbQ in cyanobacteria affects the stability of PsbV protein; and it is likely that the major function of cyanobacterial PsbQ is to stabilize the PsbV protein, thereby contributing to the protection of the catalytic Mn(4)-Ca(1)-Cl(x) cluster of the water oxidation machinery.

Cellular localization

Plastid, chloroplast thylakoid membrane

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