



Product datasheet

Anti-PsbQ antibody ab65568

Overview

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<b>Product name</b>	Anti-PsbQ antibody
<b>Description</b>	Rabbit polyclonal to PsbQ
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Tobacco
<b>Immunogen</b>	<p>Recombinant full length protein corresponding to PsbQ. The immunogen species is Spinacia oleracea (Spinach).</p> <p>Sequence:</p> <p>MAQAMASMAGLRGASQAVLEGSLQISGSNRLSGPTTSRVAVPKMGLNIRA            QQVSAEAETS            RRAMLGFVAAGLASGSFVKAVLAEARPIVVGPPPLSG            GLPGTENSQARDGTLPYTKDR            FYLQPLPPTAAQRAKVSASEILNVK            QFIDRKAWPSLQNDLRLRASYLRYDLKTVISAKP            KDEKKSLELTSKL            FSSIDNLDHAAKIKSPTEAEKYYGQTVSNINEVLAKLG</p> <p>Database link: <a href="#">P12301</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	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

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

Applications

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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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