

# Anti-OsCatB antibody

Catalog: PHY4547A

## Product Information

|                                 |                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>             | Rabbit polyclonal antibody                                                                                                                                                                                                                                                    |
| <b>Background:</b>              | CatB/Catalase isozyme B is a catalase enzyme (EC 1.11.1.6). It protects cells from hydrogen peroxide toxicity, participates in oxidative stress responses, and is involved in environmental stress responses and root growth.                                                 |
| <b>Synonyms:</b>                | CatB, CAT-B, OsCatB, OsCATB, OsCAT1B, CAT1B, CAT2, OsCAT2                                                                                                                                                                                                                     |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (16 aa from central section) derived from <i>Oryza sativa</i> CatB (Os06g0727200).                                                                                                                                                           |
| <b>Form:</b>                    | Lyophilized                                                                                                                                                                                                                                                                   |
| <b>Quantity:</b>                | 150 µg                                                                                                                                                                                                                                                                        |
| <b>Purification:</b>            | Immunogen affinity purified                                                                                                                                                                                                                                                   |
| <b>Reconstitution:</b>          | Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol.<br>"Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".                                |
| <b>Stability &amp; Storage:</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70°C as supplied.<br>6 months, -20 to -70°C under sterile conditions after reconstitution.<br>1 month, 2 to 8°C under sterile conditions after reconstitution. |
| <b>Shipping:</b>                | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.                                                                                                                                                                       |

## Application Information

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended Dilution:</b>   | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user.                                                                                                                                                                                                                  |
| <b>Expected / apparent MW:</b> | 54 kDa                                                                                                                                                                                                                                                                                                                        |
| <b>Predicted Reactivity:</b>   | Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in <i>Nicotiana tabacum</i> , <i>Cucumis sativus</i> , <i>Triticum aestivum</i> , <i>Populus trichocarpa</i> , <i>Zea mays</i> , <i>Panicum virgatum</i> , <i>Sorghum bicolor</i> , <i>Setaria</i> |

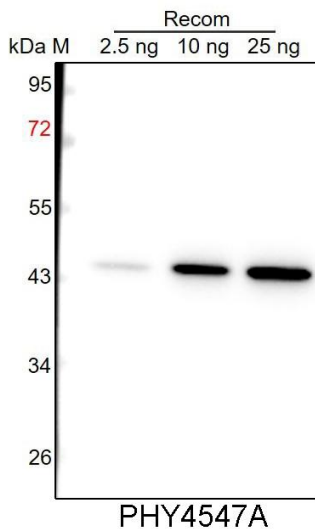
Research Use Only

*viridis*, *Gossypium raimondii*, *Solanum tuberosum*, *Chlamydomonas reinhardtii*, *Hordeum vulgare*, *Vitis vinifera*, *Brassica napus*, *Brassica rapa*, *Glycine max*, *Arabidopsis thaliana*.

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example

### Example 1



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 45 kDa.

**Electrophoresis:** 12% SDS-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

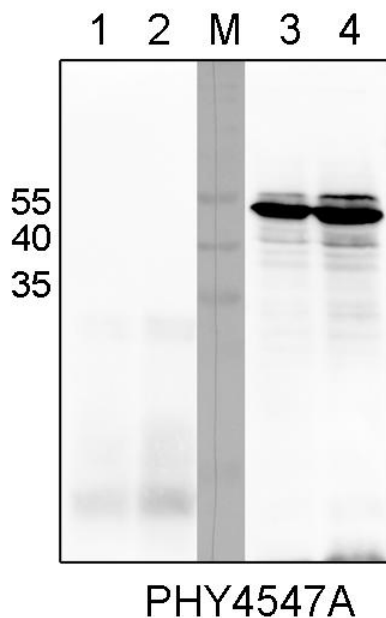
**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4°C.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.

### Example 2



**Lane 1:** 50 µg rice root total protein.

**Lane 2:** 100 µg rice root total protein.

**Lane 3:** 50 µg rice leaf total protein.

**Lane 4:** 100 µg rice leaf total protein.

**Electrophoresis:** 12.5% SDS-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4°C.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.