

# Anti-Succinate dehydrogenase subunit SDH2, mitochondrial antibody

Catalog: PHY0561A

## Product Information

- Description:** Rabbit polyclonal antibody
- Background:** Mitochondrial succinate dehydrogenase complex is also called respiratory Complex II and it is an enzyme complex found in the inner mitochondrial membrane of eukaryotes. Succinate dehydrogenase complex catalyzes the oxidation of succinate to fumarate with the reduction of ubiquinone to ubiquinol. In *Arabidopsis* mitochondria, succinate dehydrogenase complex contains 8 subunits from SDH1-SDH8. SDH2 is encoded by AT3G27380/AT5G40650.
- Synonyms:** SDH2
- Immunogen:** KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* SDH2-1 (AT3G27380), SDH2-2 (AT5G40650).
- Form:** Lyophilized
- Quantity:** 150 µg
- Purification:** Immunogen affinity purified
- Reconstitution:** Reconstitution with 150 µl of 0.01 M sterile PBS.  
"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".
- Stability &Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
12 months from date of receipt, -20 to -70°C as supplied.  
6 months, -20 to -70°C under sterile conditions after reconstitution.  
1 month, 2 to 8°C under sterile conditions after reconstitution.
- Shipping:** The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

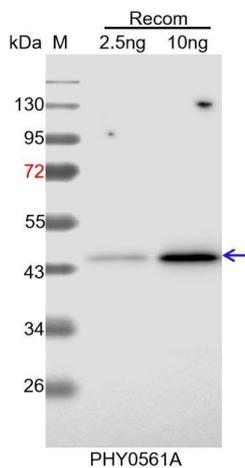
- Recommended Dilution:** Western Blot(1:1000-1:2000)  
Note: Optimal dilutions/concentrations should be determined by the end user.
- Expected / apparent MW:** 31 kDa

Research Use Only

### Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Gossypium raimondii*, *Glycine max*, *Medicago truncatula*, *Cucumis sativus*, *Vitis vinifera*, and 80-99% homologues with the sequence in *Populus trichocarpa*, *Triticum aestivum*, *Hordeum vulgare*, *Nicotiana tabacum*, *Solanum lycopersicum*, *Solanum tuberosum*, *Physcomitrium patens*, *Spinacia oleracea*. For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

### Application Example



Recom: 2.5 ng and 10 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 1h.

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

**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.