

Anti-PEX14 Antibody

Catalog # AP54170

Product Information

Application	WB
Primary Accession	Q9FXT6
Reactivity	Arabidopsis thaliana
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55595

Additional Information

Gene ID	836402
Other Names	PED2; Peroxisomal membrane protein PEX14; Peroxin-14; AtPEX14; Peroxisome biogenesis protein 14; Pex14p; Protein PEROXISOME DEFECTIVE 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of arabidopsis thaliana PEX14. The exact sequence is proprietary.
Dilution	WB~~1/500 - 1/2000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

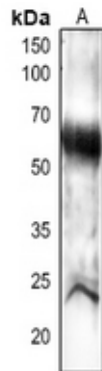
Name	PEX14 {ECO:0000303 PubMed:11060021}
Synonyms	PED2
Function	Component of the PEX13-PEX14 docking complex, a translocon channel that specifically mediates the import of peroxisomal cargo proteins bound to PEX5 receptor (PubMed: 11060021 , PubMed: 11978862 , PubMed: 17478547 , PubMed: 19594707). The PEX13-PEX14 docking complex forms a large import pore which can be opened to a diameter of about 9 nm (By similarity). Mechanistically, PEX5 receptor along with cargo proteins associates with the PEX14 subunit of the PEX13-PEX14 docking complex in the cytosol, leading to the insertion of the receptor into the organelle membrane with the concomitant translocation of the cargo into the peroxisome matrix (By similarity).
Cellular Location	Peroxisome membrane; Single-pass membrane protein

{ECO:0000250|UniProtKB:Q642G4}

Tissue Location

Expressed in flowers, siliques, leaves and roots.

Images



Western blot analysis of PEX14 expression in *Arabidopsis thaliana* (A) whole cell lysates. (Predicted band size: 55 kD; Observed band size: 55 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.