abcam

Product datasheet

Anti-PEX5 antibody ab94532

1 Image

Overview

Product name	Anti-PEX5 antibody
Description	Rabbit polyclonal to PEX5
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Horse, Guinea pig, Cow, Cat, Dog
Immunogen	Synthetic peptide corresponding to a region within N terminal amino acids 180-229 (ATDRWYDEYH PEEDLQHTAS DFVAKVDDPK LANSEFLKFV RQIGEGQVSL) of Human PEX5 (NP_000310). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	ACHN cell lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab94532** in the following tested applications.

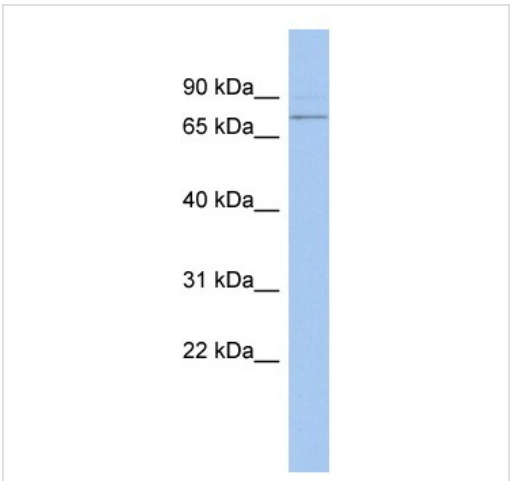
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 71 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

Function	Binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import.
Tissue specificity	Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Involvement in disease	Defects in PEX5 are a cause of adrenoleukodystrophy neonatal (NALD) [MIM:202370]. NALD is a peroxisome biogenesis disorder (PBD) characterized by the accumulation of very long-chain fatty acids, adrenal insufficiency and mental retardation. Inheritance is autosomal recessive. Defects in PEX5 are a cause of Zellweger syndrome (ZWS) [MIM:214100]. ZWS is a fatal peroxisome biogenesis disorder characterized by dysmorphic facial features, hepatomegaly, ocular abnormalities, renal cysts, hearing impairment, profound psychomotor retardation, severe hypotonia and neonatal seizures. Death occurs within the first year of life. Defects in PEX5 may be a cause of infantile Refsum disease (IRD) [MIM:266510]. IRD is a mild peroxisome biogenesis disorder (PBD). Clinical features include early onset, mental retardation, minor facial dysmorphism, retinopathy, sensorineural hearing deficit, hepatomegaly, osteoporosis, failure to thrive, and hypocholesterolemia. The biochemical abnormalities include accumulation of phytanic acid, very long chain fatty acids (VLCFA), di- and trihydroxycholestanoic acid and pipecolic acid.
Sequence similarities	Belongs to the peroxisomal targeting signal receptor family. Contains 7 TPR repeats.
Cellular localization	Cytoplasm. Peroxisome membrane. Its distribution appears to be dynamic. It is probably a cycling receptor found mainly in the cytoplasm and as well associated to the peroxisomal membrane through a docking factor.

Images



Western blot - PEX5 antibody (ab94532)

Anti-PEX5 antibody (ab94532) at 1 µg/ml (in 5% skim milk / PBS buffer) + ACHN cell lysate at 10 µg

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 71 kDa

Gel concentration: 12%

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