abcam

Product datasheet

Anti-PEX7 antibody [EPR7715(2)(B)] ab133754

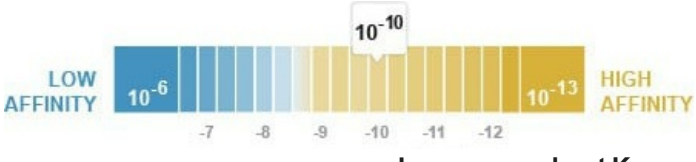
Recombinant RabMAb

3 Images

Overview

Product name	Anti-PEX7 antibody [EPR7715(2)(B)]
Description	Rabbit monoclonal [EPR7715(2)(B)] to PEX7
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human PEX7 aa 50-150. The exact sequence is proprietary.
Positive control	Human fetal heart lysate, Human fetal muscle lysate, MCF7 cell lysate
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 1.38 \times 10^{-10}$ M  **Learn more about K_D**
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR7715(2)(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133754 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 - 1/10000. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

Function Binds to the N-terminal PTS2-type peroxisomal targeting signal and plays an essential role in peroxisomal protein import.

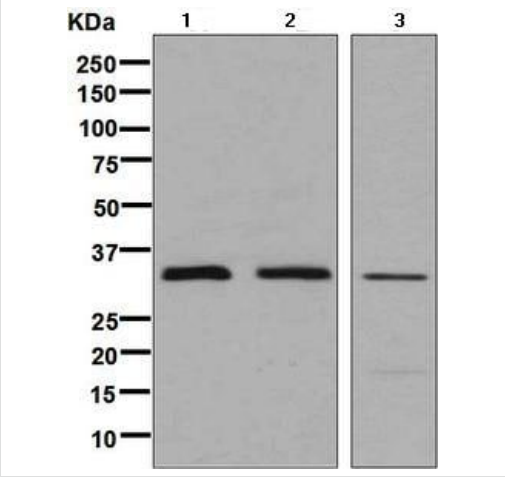
Tissue specificity Ubiquitous. Highest expression in pancreas, skeletal muscle and heart.

Involvement in disease Defects in PEX7 are the cause of peroxisome biogenesis disorder complementation group 11 (PBD-CG11) [MIM:614879]. PBD refers to a group of peroxisomal disorders arising from a failure of protein import into the peroxisomal membrane or matrix. The PBD group is comprised of four disorders: Zellweger syndrome (ZWS), neonatal adrenoleukodystrophy (NALD), infantile Refsum disease (IRD), and classical rhizomelic chondrodysplasia punctata (RCDP). ZWS, NALD and IRD are distinct from RCDP and constitute a clinical continuum of overlapping phenotypes known as the Zellweger spectrum. The PBD group is genetically heterogeneous with at least 13 distinct genetic groups as concluded from complementation studies.
Defects in PEX7 are the cause of rhizomelic chondrodysplasia punctata type 1 (RCDP1) [MIM:215100]. RCDP1 is characterized by rhizomelic shortening of femur and humerus, vertebral disorders, cataract, cutaneous lesions and severe mental retardation.
Defects in PEX7 are the cause of peroxisome biogenesis disorder 9B (PBD9B) [MIM:614879]. A peroxisome biogenesis disorder with unusually mild clinical and biochemical manifestations. Affected individuals manifest a variable phenotype similar to, and in some cases indistinguishable from, classic Refsum disease. Variable features include ocular abnormalities, sensorimotor neuropathy, ichthyosis, deafness, chondrodysplasia punctata without rhizomelia or growth failure.

Sequence similarities Belongs to the WD repeat peroxin-7 family.
Contains 6 WD repeats.

Cellular localization Peroxisome. Cytoplasm.

Images



Western blot - Anti-PEX7 antibody [EPR7715(2)(B)] (ab133754)

All lanes : Anti-PEX7 antibody [EPR7715(2)(B)] (ab133754) at 1/1000 dilution

Lane 1 : Human fetal heart lysate

Lane 2 : Human fetal muscle lysate

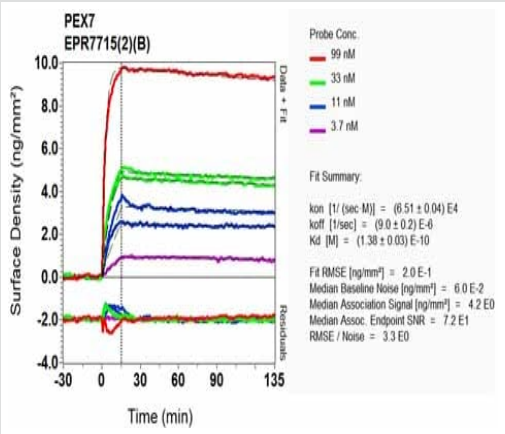
Lane 3 : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

Predicted band size: 36 kDa

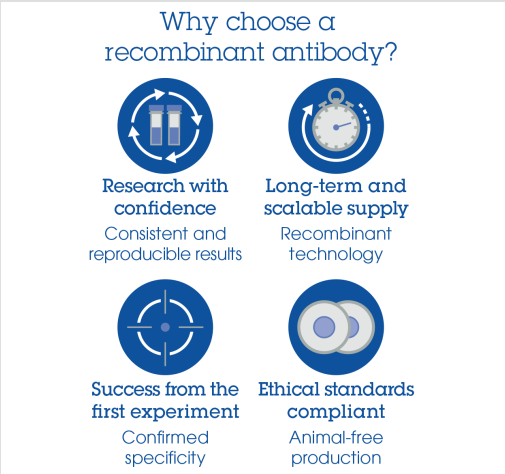


OI-RD Scanning - Anti-PEX7 antibody [EPR7715(2)(B)] (ab133754)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-PEX7 antibody [EPR7715(2)(B)] (ab133754)

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