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# CoraLite®594-conjugated PEX14 Polyclonal antibody

Catalog Number:CL594-10594 6 Publications

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## Basic Information

Catalog Number:
CL594-10594

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0932

GenBank Accession Number:
BC006327

GeneID (NCBI):
5195

Full Name:
peroxisomal biogenesis factor 14

Calculated MW:
41 kDa

Observed MW:
57 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF 1:200-1:800

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

## Applications

Tested Applications:
FC (Intra), IF

Cited Applications:
IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Positive Controls:

IF : HeLa cells,

## Background Information

PEX14 (peroxisomal biogenesis factor 14) is a peroxisomal membrane protein that is essential for protein docking onto the peroxisomes. It is a central component of the peroxisimal matrix protein import machinery and interacts with PEX5 and PEX19. PEX14 is ubiquitously expressed and defects in PEX14 are the cause of peroxisome biogenesis disorder complementation group K (PBD-CGK). This antibody can be used to detect endogenous PEX14 with an apparent molecular weight of 57 kDa (PMID: 16449325; 9653144) and recognize peroxisomal structures in human, monkey and mouse cells.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Jingyun Liu | 36558932 | Pharmaceuticals (Basel) | IF |
| Xiaoyu Sun | 38105755 | Am J Physiol Cell Physiol | IF |
| Xuliang Huang | 38037161 | J Neuroinflammation | IF |

## Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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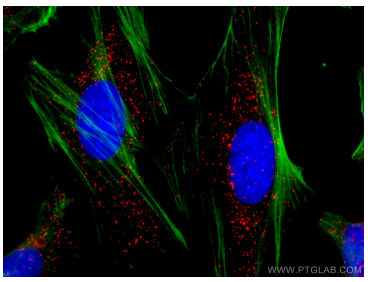
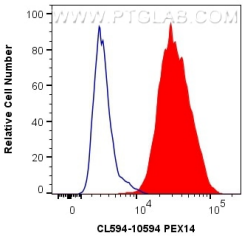
## Selected Validation Data




Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CoraLite®594 PEX14 antibody (CL594-10594) at dilution of 1:400, CoraLite®488 Beta Actin antibody (CL488-66009, Clone: 2D4H5, green).




1X10^6 HeLa cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human PEX14 (CL594-10594) (red), or 0.8 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).