

# Anti-Ferredoxin Reductase antibody ab204310

[4 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-Ferredoxin Reductase antibody
<b>Description</b>	Rabbit polyclonal to Ferredoxin Reductase
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human Ferredoxin Reductase aa 1-150. Database link: <a href="#">P22570</a>
	<a href="#">Run BLAST with</a> <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human adrenal gland, testis tissue. ICC: U-2 OS cells. WB: A549, RT4, and U-251 MG cell lysates.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab204310 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 0.04 - 0.4 µg/ml. Predicted molecular weight: 54 kDa.
ICC		Use a concentration of 0.25 - 2 µg/ml.
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Serves as the first electron transfer protein in all the mitochondrial P450 systems. Including cholesterol side chain cleavage in all steroidogenic tissues, steroid 11-beta hydroxylation in the adrenal cortex, 25-OH-vitamin D3-24 hydroxylation in the kidney, and sterol C-27 hydroxylation in the liver.

### Pathway

Steroid metabolism; cholesterol metabolism.

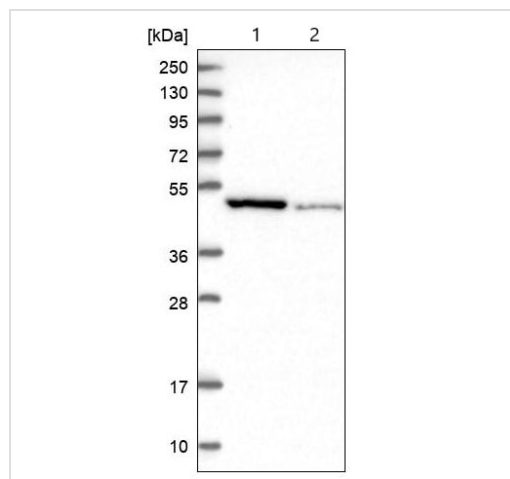
### Sequence similarities

Belongs to the ferredoxin--NADP reductase type 1 family.

### Cellular localization

Mitochondrion matrix.

## Images



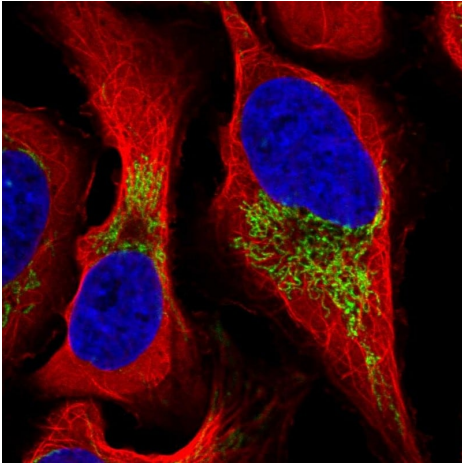
Western blot - Anti-Ferredoxin Reductase antibody (ab204310)

**All lanes** : Anti-Ferredoxin Reductase antibody (ab204310) at 0.4 µg/ml

**Lane 1** : RT4 (human urinary bladder cancer cell line) cell lysate

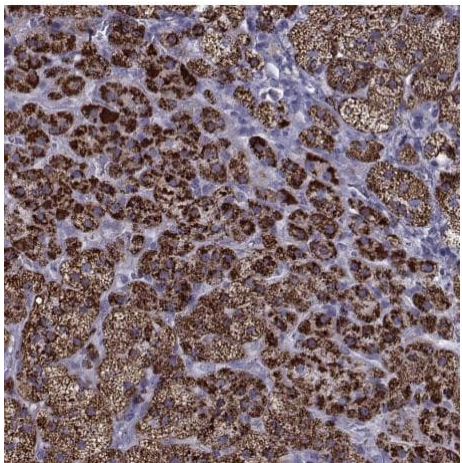
**Lane 2** : U-251 MG (formally U-373 MG) (human brain glioma cell line) cell lysate

**Predicted band size:** 54 kDa



Immunocytochemistry - Anti-Ferredoxin Reductase antibody (ab204310)

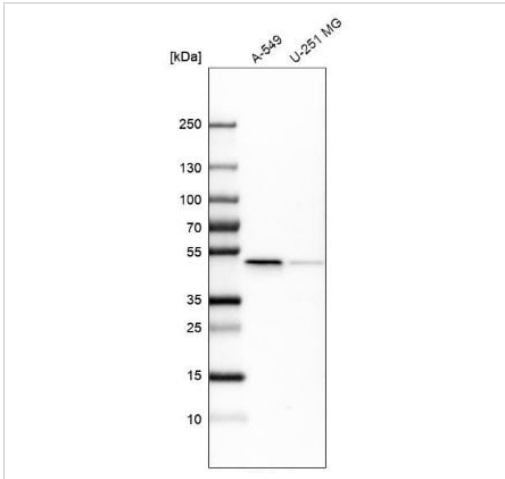
Immunocytochemistry analysis of U-2 OS cells (PFA-fixed/Triton X-100 permeabilized) labeling Ferredoxin Reductase with ab204310 at 2  $\mu\text{g}/\text{mL}$ .



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ferredoxin Reductase antibody (ab204310)

Paraffin embedded human adrenal gland tissue stained for Ferredoxin Reductase using ab204310 at 1/500 dilution in immunohistochemical analysis.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.



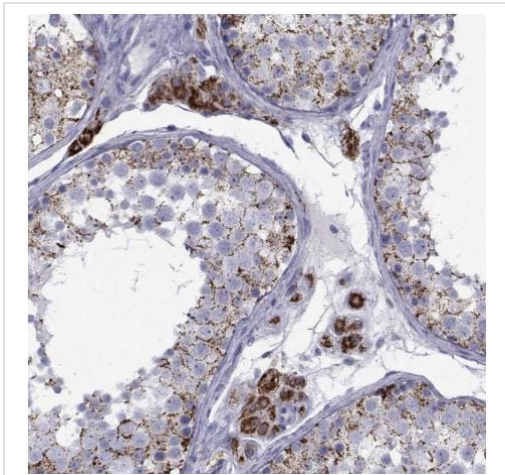
Western blot - Anti-Ferredoxin Reductase antibody (ab204310)

**All lanes :** Anti-Ferredoxin Reductase antibody (ab204310) at 0.4  $\mu\text{g/ml}$

**Lane 1 :** A549 (human lung carcinoma cell line) cell lysate

**Lane 2 :** U-251 MG (formally U-373 MG) (human brain glioma cell line) cell lysate

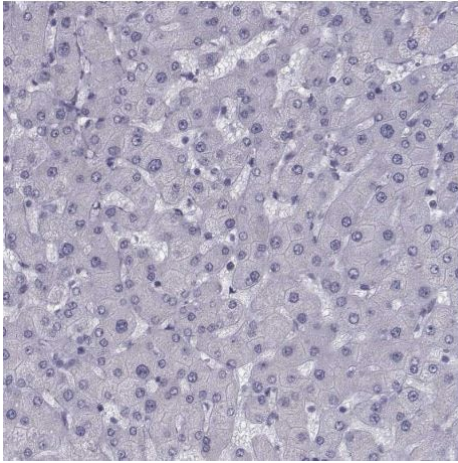
**Predicted band size:** 54 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ferredoxin Reductase antibody (ab204310)

Paraffin embedded human testis tissue stained for Ferredoxin Reductase using ab204310 at 1/500 dilution in immunohistochemical analysis.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ferredoxin Reductase antibody (ab204310)

Paraffin embedded human liver tissue stained for Ferredoxin Reductase using ab204310 at 1/500 dilution in immunohistochemical analysis. Shows no positivity in hepatocytes cells as expected.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before the IHC staining protocol.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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