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For Research Use Only

IHC*easy*® FDX1L Ready-To-Use IHC Kit

Catalog Number: KHC3271

General Information

Sample type:
FFPE tissue

Cited sample type:

Reactivity:
Human, Mouse

Cited Reactivity:

Assay type:
Immunohistochemistry

Primary antibody type:
Rabbit Polyclonal

Secondary antibody type:
Polymer-HRP-Goat anti-Rabbit

Kit Component

Component	Size	Concentration
Antigen Retrieval Buffer	100 mL	50×
Washing Buffer	100 mL ×2	20×
Blocking Buffer	5 mL	RTU
Primary Antibody	5 mL	RTU
Secondary Antibody	5 mL	RTU
Chromogen Component A	0.2 mL	RTU
Chromogen Component B	4 mL	RTU
Signal Enhancer	5 mL	RTU
Counter Staining Reagent	5 mL	RTU
Mounting Media	5 mL	RTU
Control Slide	1 slide (Optional)	FFPE
Datasheet	1 Copy	
Manual	1 Copy	

Storage Instructions

All the reagents are stored at 2-8°C. The kit is stable for 6 months from the date of receipt.

Background

FDX1L (ferredoxin 1-like) is a gene encoding mitochondrial protein whose primary function is to participate in the biosynthesis of iron-sulfur clusters (Fe-S clusters). FDX1L is closely related to the assembly of iron-sulfur clusters and is the second component in the biosynthesis mechanism of iron-sulfur clusters. Studies have shown that FDX1L is widely expressed in human cells, especially in the central nervous system. In addition, mutations in FDX1L can lead to mitochondrial myopathy, manifested by a significant reduction in the activity of respiratory chain complexes I, II, and III. The function of FDX1L is different from that of FDX1 (ferredoxin 1). FDX1 is mainly involved in the synthesis of steroid hormones, while FDX1L focuses on the biosynthesis of iron-sulfur clusters. This functional difference allows FDX1L to play an important role in maintaining homeostasis of iron-sulfur clusters in the cell.

Synonyms

Adrenodoxin-like protein, FDX2, Ferredoxin-1-like protein, Ferredoxin-2, mitochondrial

For technical support and original validation data for this product please contact:
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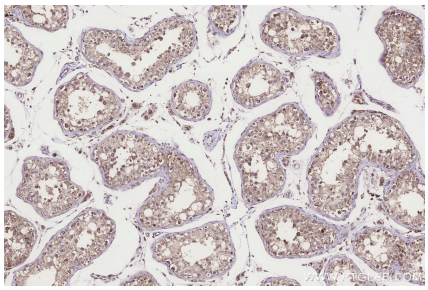
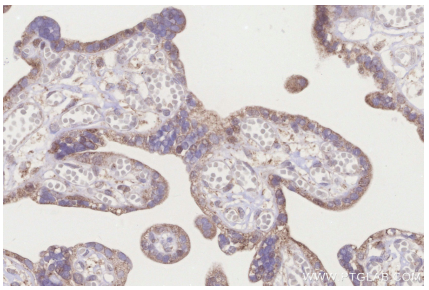
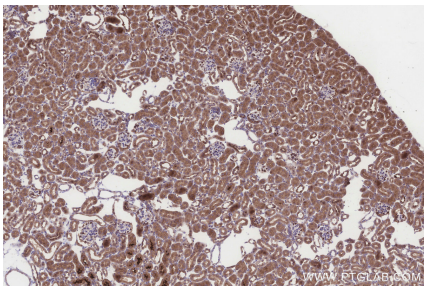
Selected Validation Data



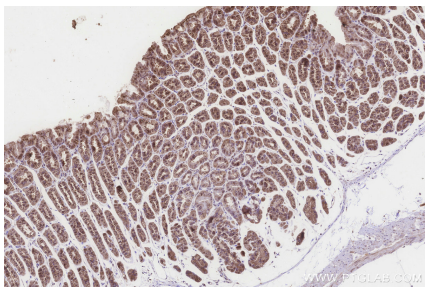
Immunohistochemical analysis of paraffin-embedded human testis tissue slide using KHC3271 (FDX1L IHC Kit).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using KHC3271 (FDX1L IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using KHC3271 (FDX1L IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using KHC3271 (FDX1L IHC Kit).