

IHC*easy* RNF139 Ready-To-Use IHC Kit

Catalog Number: **KHC2730**

General Information

Sample type:
FFPE tissue
Cited sample type:
Reactivity:
Human, Mouse, Rat
Cited Reactivity:

Assay type:
Immunohistochemistry
Primary antibody type:
Rabbit Recombinant
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.

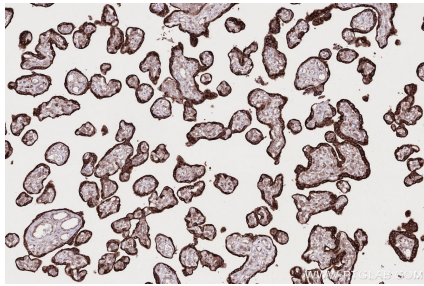
Background

The RNF139 gene (ring-finger protein 139), also known as TRC8 (translocation in renal carcinoma from chromosome 8), was first identified from a family with 3;8 chromosomal translocation and hereditary renal cell carcinoma and thyroid cancer. RNF139 encodes an endoplasmic reticulum (ER) protein with 10 transmembrane segments that contain a sterol-sensing domain and a RING finger motif encoding an E3 ubiquitin ligase. Northern blot and dot blot show that RNF139 is highly expressed in the testis, placenta, and adrenal gland and is expressed at lower levels in the heart, brain, liver, skeletal muscle, and pancreas. It is reported that TRC8 suppresses tumorigenesis by targeting heme oxygenase-1 (HO-1), an antioxidant enzyme highly expressed in various cancers, for ubiquitination and degradation. TRC8 is also involved in cholesterol and fatty acid biosynthesis that are transcriptionally regulated by the sterol response element binding proteins (SREBPs). Acetylation, phosphorylation, and autoubiquitination are common post-translational modifications of RNF139 protein.

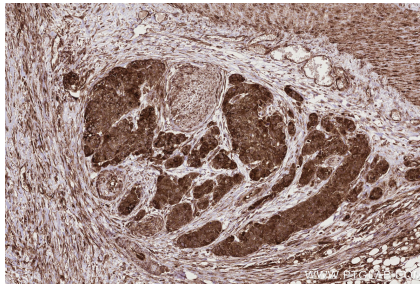
Synonyms

RNF139, E3 ubiquitin-protein ligase RNF139, EC:2.3.2.27, HRCA1, RCA1

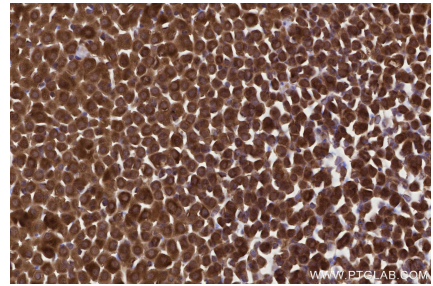
Selected Validation Data



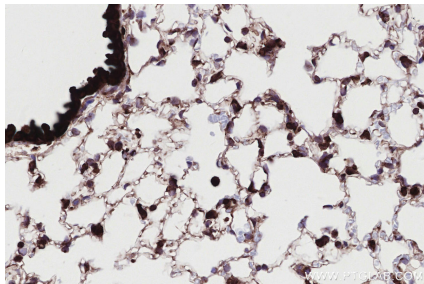
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using KHC2730 (RNF139 IHC Kit).



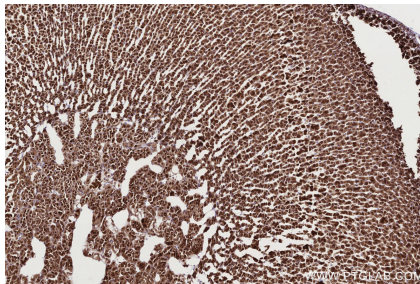
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using KHC2730 (RNF139 IHC Kit).



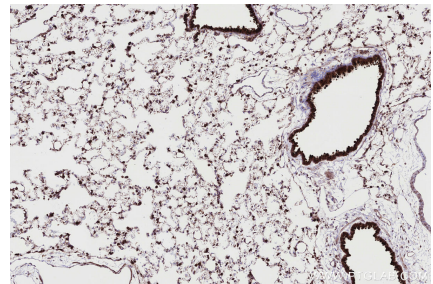
Immunohistochemical analysis of paraffin-embedded mouse adrenal gland tissue slide using KHC2730 (RNF139 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using KHC2730 (RNF139 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat adrenal gland tissue slide using KHC2730 (RNF139 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using KHC2730 (RNF139 IHC Kit).