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For Research Use Only

IHC*easy* RD3 Ready-To-Use IHC Kit

Catalog Number: KHC2619

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

RD3, or Retinal Degeneration 3, plays a critical role in regulating guanylate cyclase (GC) signaling and photoreceptor cell survival. RD3 is highly conserved across vertebrates, with the human protein sharing high sequence identity with other primates and varying degrees of identity with other species. The main functions of RD3 include inhibiting photoreceptor-specific guanylate cyclase activity and promoting the accumulation of retinal membrane guanylyl cyclase (RetGC) in the photoreceptor outer segment. RD3 is essential for the normal expression of RetGC in photoreceptor cells and blocks RetGC catalytic activity. Mutations in the RD3 gene can lead to Leber congenital amaurosis type 12, which results in retinal degeneration. RD3 is also involved in the trafficking of RetGC from the endoplasmic reticulum to the photoreceptor outer segments, which is crucial for maintaining the normal function and survival of photoreceptors.

Synonyms

RD3,C1orf36,LCA12,Protein RD3,retinal degeneration

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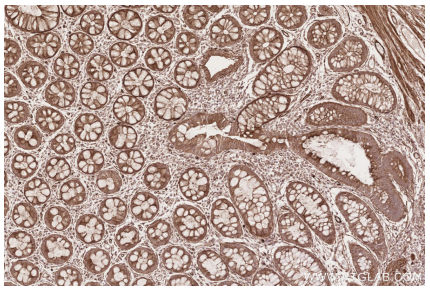
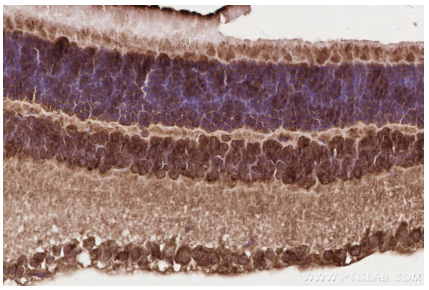
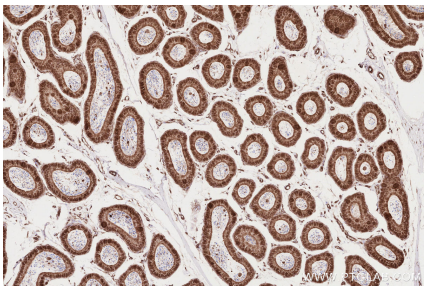
Selected Validation Data



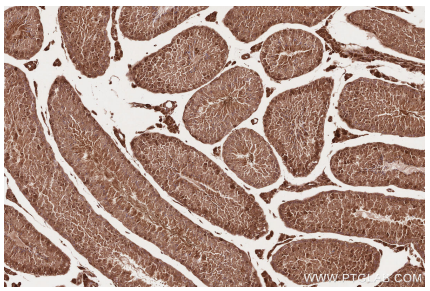
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using KHC2619 (RD3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using KHC2619 (RD3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse epididymis tissue slide using KHC2619 (RD3 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using KHC2619 (RD3 IHC Kit).