

# IHCeasy<sup>®</sup> AP3B1 Ready-To-Use IHC Kit

Catalog Number: **KHC3134**

## General Information

Sample type:  
FFPE tissue  
Cited sample type:  
Reactivity:  
Human  
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.

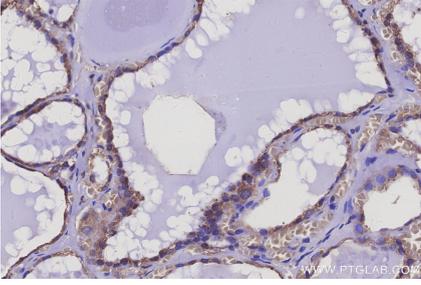
## Background

AP3B1 is the 140-kDa  $\beta$  3A subunit of the adaptor-related protein complex-3 (AP-3), a ubiquitous heterotetrameric complex that is localized to the trans-Golgi network and endosomes and is involved in protein trafficking to lysosomes or specialized endosomal-lysosomal organelles. This complex is composed of two larger subunits ( $\delta$  and  $\beta$  3A or  $\beta$  3B), a medium subunit ( $\mu$  3A or  $\mu$  3B), and a small subunit ( $\sigma$  3A or  $\sigma$  3B). The absence of the  $\beta$  3A subunit (AP3B1) results in the loss of stability of AP3 and leads to degradation of  $\mu$  3A, to which  $\beta$  3A is directly bound, while the other subunits are variably affected. AP3B1 contains three main domains: the N-terminal head domain, the hinge, and the C-terminal ear domain. It has been reported as a target of IP(7)-mediated pyrophosphorylation. Defects in AP3B1 are the cause of Hermansky-Pudlak syndrome type 2 (HPS2).

## Synonyms

Adaptor protein complex AP-3 subunit beta-1, Adaptor-related protein complex 3 subunit beta-1, ADTB3, ADTB3A, AP 3 complex subunit beta 1

## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using KHC3134 (AP3B1 IHC Kit).