

# IHC*easy* CRTC2 Ready-To-Use IHC Kit

Catalog Number: **KHC1784**

## General Information

**Sample type:**  
FFPE tissue

**Cited sample type:**

**Reactivity:**  
Human, Mouse, Rat

**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.

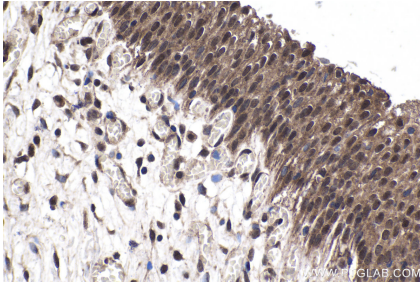
## Background

CRTC2, also named as TORC2, belongs to the TORC family. It is a transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites. It acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated and acts independently of CREB1 'Ser-133' phosphorylation. CRTC2 enhances the interaction of CREB1 with TAF4. It regulates gluconeogenesis as a component of the LKB1/AMPK/TORC2 signaling pathway. CRTC2 regulates the expression of specific genes such as the steroidogenic gene, StAR. TORC2 was recently shown to be an important regulator of gluconeogenesis in the livers of mammals. It is one of the other key regulators of CRE-dependent MIE gene expression in NT2 cells. This regulation is linked to VIP-induced TORC2 dephosphorylation and translocation to the nucleus.

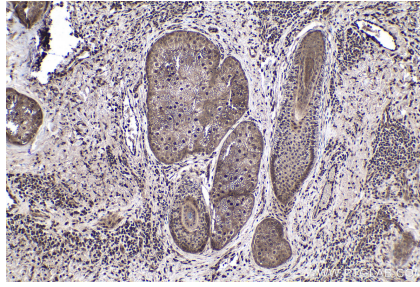
## Synonyms

CRTC2, CRTC2,TORC2, RP11 422P24.6, TORC 2, TORC2, Transducer of CREB protein 2

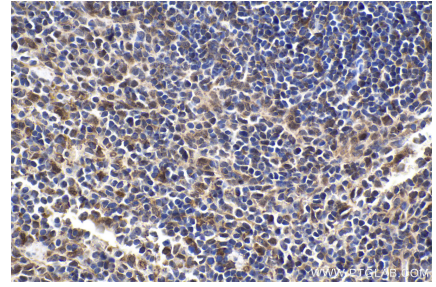
## Selected Validation Data



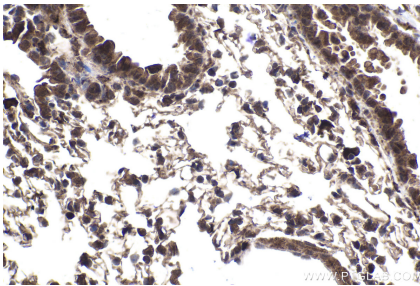
Immunohistochemical analysis of paraffin-embedded human urothelial carcinoma tissue slide using KHC1784 (CRTC2 IHC Kit).



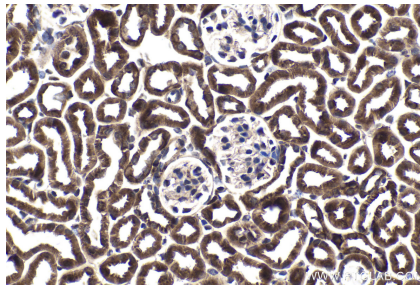
Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using KHC1784 (CRTC2 IHC Kit).



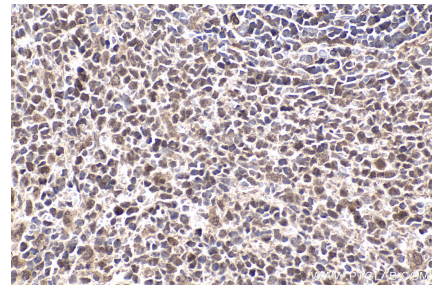
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using KHC1784 (CRTC2 IHC Kit).



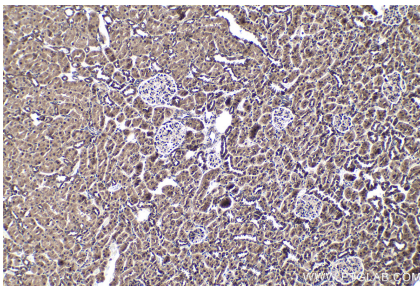
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using KHC1784 (CRTC2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using KHC1784 (CRTC2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat spleen tissue slide using KHC1784 (CRTC2 IHC Kit).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using KHC1784 (CRTC2 IHC Kit).