Raf-B (phospho Thr401) (PT0329R) PT™ Rabbit mAb

CatalogNo: YM8194 Recombinant

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,IP,ELISA

MW
- 84kD (Calculated)

84kD (Observed)

Isotype
- IgG, Kappa

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:2000-1:10000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200

Basic Information

Clonality	Monoclonal
Clone Number	PT0329R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	This antibody detects endogenous levels of Raf-B only when phosphorylated at Thr401.This antibody does not recognize phosphorylated at other sites.

Target Information

Gene name BRAF

Protein Name Serine/threonine-protein kinase B-raf

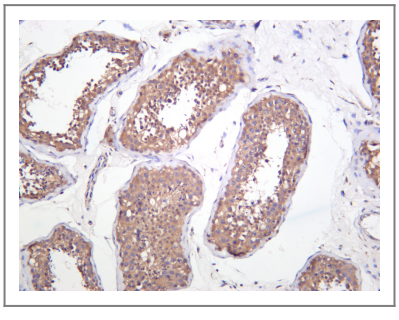
Organism	Gene ID	UniProt ID
Human	673;	P15056;
Mouse	109880;	P28028;

Cellular Localization Cytoplasm ,Nucleus

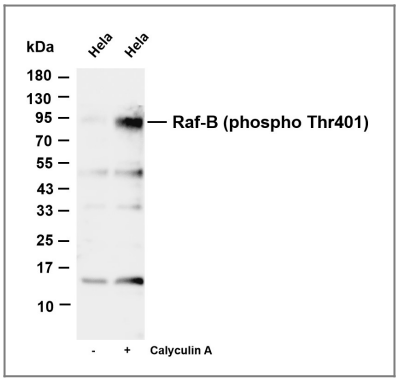
Tissue specificity Brain and testis.

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Binds 2 zinc ions per subunit. ,Disease:Defects in BRAF are a cause of cardiofaciocutaneous syndrome (CFC syndrome) [MIM:115150]; also known as cardio-facio-cutaneous syndrome. CFC syndrome is characterized by a distinctive facial appearance , heart defects and mental retardation. Heart defects include pulmonic stenosis , atrial septal defects and hypertrophic cardiomyopathy. Some affected individuals present with ectodermal abnormalities such as sparse , friable hair , hyperkeratotic skin lesions and a generalized ichthyosis-like condition. Typical facial features are similar to Noonan syndrome. They include high forehead with bitemporal constriction , hypoplastic supraorbital ridges , downslanting palpebral fissures , a depressed nasal bridge , and posteriorly angulated ears with prominent helices. The inheritance of CFC syndrome is autosomal dominant. ,Disease:Defects in BRAF are involved in a wide range of cancers. ,Disease:Defects in BRAF are involved in lung cancer [MIM:211980]. ,Disease:Defects in BRAF are involved in non-Hodgkin lymphoma (NHL) [MIM:605027]. NHL is a cancer that starts in cells of the lymph system , which is part of the body's immune system. NHLs can occur at any age and are often marked by enlarged lymph nodes , fever and weight loss. ,Disease:Defects in BRAF may be a cause of colorectal cancer (CRC) [MIM:114500]. ,Function:Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. May play a role in the postsynaptic responses of hippocampal neuron. ,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily. ,similarity:Contains 1 phorbol-ester/DAG-type zinc finger. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 1 RBD (Ras-binding) domain. ,subunit:Interacts with RIT1. ,tissue specificity:Brain and testis. ,

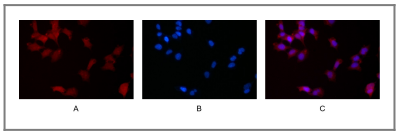
Validation Data



Human testis was stained with anti-Raf-B (phospho Thr401) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Raf-B (phospho Thr401) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: Hela was starved of serum for 24 hours and then treated with 20% fetal bovine serum for 15 minutes, followed by Calyculin A treatment for 15 minutes Predicted band size: 84kDa Observed band size: 84kDa



Immunofluorescence analysis of HEK293. Picture A: Raf-B antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

Contact information

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Please scan the QR code to access additional product information: **Raf-B (phospho Thr401) (PT0329R) PT™ Rabbit mAb**

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