

Raf-B (Phospho Ser446) Rabbit pAb

CatalogNo: YP0780 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 85kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:10000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human B-RAF around the phosphorylation site of Ser446. AA range:411-460

Specificity

Phospho-Raf-B (S446) Polyclonal Antibody detects endogenous levels of Raf-B protein only when phosphorylated at S446. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RDSsD

Target Information

Gene name BRAF

Protein Name Serine/threonine-protein kinase B-raf

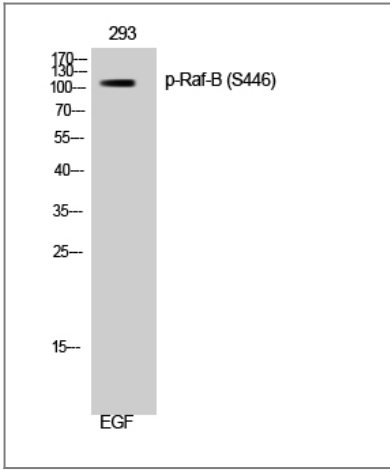
Organism	Gene ID	UniProt ID
Human	673;	P15056;
Mouse	109880;	P28028;

Cellular Localization Nucleus . Cytoplasm . Cell membrane . Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes. .

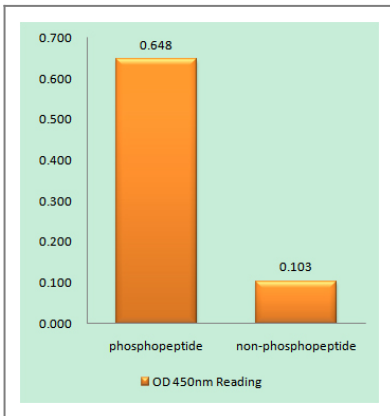
Tissue specificity Brain and testis.

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. ,

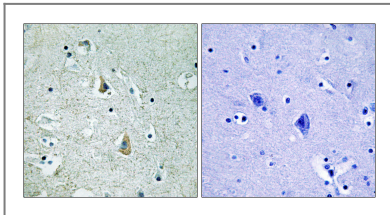
Validation Data



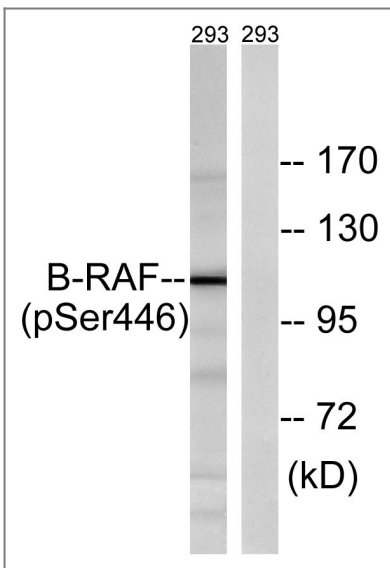
Western Blot analysis of 293 cells using Phospho-Raf-B (S446) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using B-RAF (Phospho-Ser446) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using B-RAF (Phospho-Ser446) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with EGF 200ng/ml 30', using B-RAF (Phospho-Ser446) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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product information:
**Raf-B (Phospho
Ser446) Rabbit pAb**

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