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Datasheet for 600-401-Z87

B-raf Antibody

Overview

Description:	Anti-B-raf (RABBIT) Antibody - 600-401-Z87
Item No.:	600-401-Z87
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	B-raf belongs to the raf/mil family of serine/threonine protein kinases and plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. The Ras/Raf/MEK/ERK and Ras/PI3K/PTEN/Akt pathways interact with each other to regulate growth and in some cases tumorigenesis. Mutations in B-raf have been associated with several cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung, leading to speculation on the possibility of B-raf as a therapeutic target for treating cancers. Mutations in this gene have also been associated with cardiofaciocutaneous syndrome (CFCS), a disease characterized by heart defects, mental retardation and a distinctive facial appearance.
Synonyms:	B-raf Antibody, NS7, BRAF1, RAFB1, B-RAF1, Proto-oncogene B-Raf
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BRAF
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-B-raf antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid peptide near the internal region of human B-raf. The immunogen is located within amino acids 330 - 380 of B-raf.
Purity/Specificity:	Anti-B-raf Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least two isoforms of B-raf are known to exist; this antibody will detect both isoforms. This antibody will not cross-react with C-raf. Predicted species reactivity based on immunogen sequence: Rat: (100%), Chicken: (100%).
Relevant Links:	• UniProtKB - P15056 • GeneID - 673 • NCBI - NP_004324.2

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-B-raf Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 94 kDa in Western Blots of specific cell lysates and tissues. Positive controls used are Human brain tissue, Human Small Intestine Tissue, Daudi cells, and K562 cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:20,000
IF:	User Optimized
IHC:	User Optimized
WB:	1 - 2 µg/mL

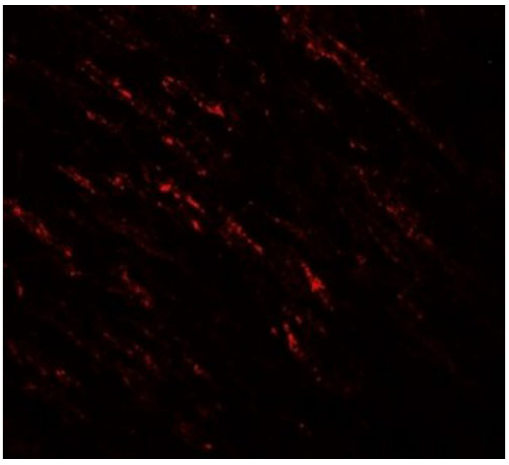
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

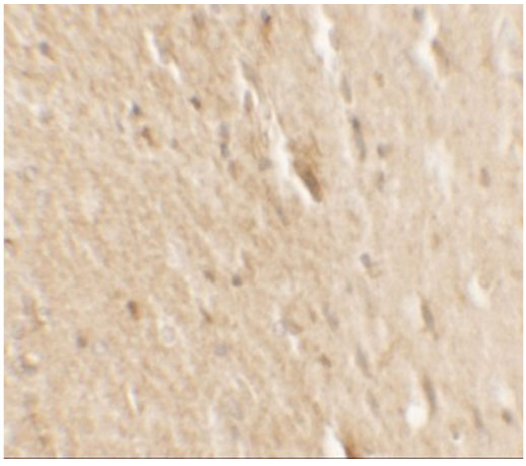
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

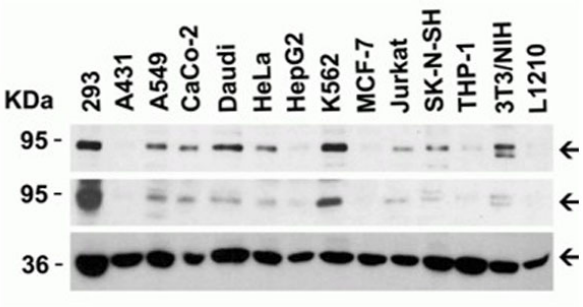


Immunofluorescence Microscopy
Immunofluorescence of B-raf.
Tissue: Human Small Intestine tissue.
Fixation: 4% paraformaldehyde-fixed.
Primary Antibody: B-raf at 20 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (red).

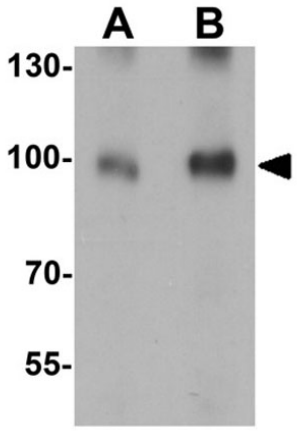


Immunohistochemistry
Immunohistochemistry of B-raf.
Tissue: Human Small Intestine Tissue.
Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-B-raf antibody at 2.5 µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



Western Blot
Western Blot of B-raf.
Load: 15 µg of lysates per lane.
Primary Antibodies: Top: chicken B-raf at 0.5 µg/mL, Middle: rabbit B-raf (p/n 600-401-Z87) at 0.5 µg/mL, and Bottom: GAPDH at 0.02 µg/mL for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-chicken or goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot of B-raf.
Load: 15 µg of Human Brain tissue lysates per lane.
Antibodies: B-raf at (A: 1 µg/mL; B: 2 µg/mL) for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

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