

BRAF (mutated V600E) Mouse mAb**Catalog No.: A29554****Basic Information****Observed MW**

85 kDa

Calculated MW

84 kDa

Category

Monoclonal Antibodies

Applications

WB, IHC-P, ELISA

Cross Reactivity

Human

Clone No.

AMC0936

Background

This gene encodes a protein belonging to the RAF family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERK signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene, most commonly the V600E mutation, are the most frequently identified cancer-causing mutations in melanoma, and have been identified in various other cancers as well, including non-Hodgkin lymphoma, colorectal cancer, thyroid carcinoma, non-small cell lung carcinoma, hairy cell leukemia and adenocarcinoma of lung. Mutations in this gene are also associated with cardiofaciocutaneous, Noonan, and Costello syndromes, which exhibit overlapping phenotypes. A pseudogene of this gene has been identified on the X chromosome.

Recommended Dilutions**WB** 1:3000 - 1:7000**IHC-P** 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10,000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information**Gene ID**

673

Swiss-Prot

P15056

Immunogen

This information is considered to be commercially sensitive.

Synonyms

NS7; B-raf; BRAF1; RAFB1; B-RAF1; BRAF-1

Product Information**Source**

Mouse

Isotype

Mouse IgG2b

Purity

Affinity purification

Storage

Store at -20°C

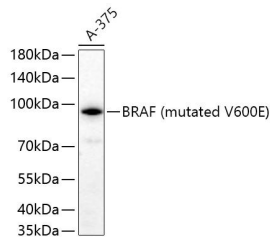
Contact

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Validation Data



Western blot analysis of lysates from A-375 cells using BRAF (mutated V600E) Mouse mAb (A29554) at 1:7000 dilution incubated overnight at 4°C.

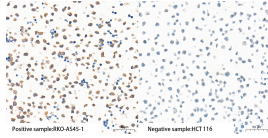
Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

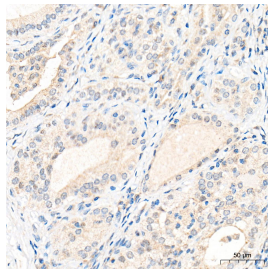
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.



Immunohistochemistry analysis of paraffin-embedded RKO-AS45-1 cells (left, Positive control) and HCT 116 cells (right, Negative control), using BRAF (mutated V600E) Mouse mAb (A29554) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human papillary thyroid carcinoma tissue using BRAF (mutated V600E) Mouse mAb (A29554) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.