Leader in Biomolecular Solutions for Life Science

# BRAF (mutated V600E) Mouse mAb

**Catalog No.: A29554**

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## 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


## Contact

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## Product Information

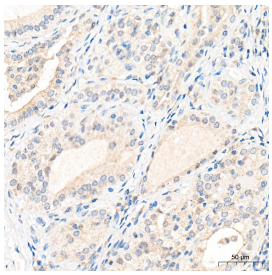
**Source**
Mouse

**Isotype**
Mouse IgG2b

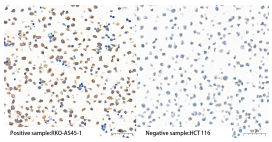
**Purity**
Affinity purification

**Storage**
Store at -20℃

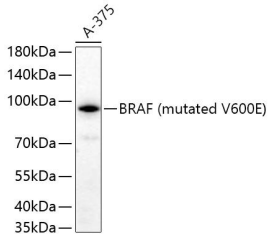
## Validation Data



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.



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.




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.



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