NewEast Biosciences

A helping hand for your research

Product Description

B-Raf (V600E)

Catalog Number: 26039

Gene Symbol: BRAF, BRAF1, RAFB1

Description: Anti-B-Raf (V600E) Mouse Monoclonal Antibody

Background: B-Raf is a member of the Raf family of Ser/Thr protein kinases. It functions downstream of Ras to regulate the MAP kinase signaling pathway. Mutations in the BRAF gene cause diseases. Inherited mutations in BRAF cause cardiofaciocutaneous syndrome. Acquired mutations in BRAF have been found in cancers

Immunogen: A synthetic peptide from the internal region of Braf (V600E), human origin.

Tested applications: ELISA, WB, **IHC**, IP

Recommended dilutions:

ELISA	1:1000-1:5000
WB	1:500-1:2000
IHC	1:100-1:200

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Isotype: IgG

Purity: Purified from ascites

Format: Liquid

Storage buffer:

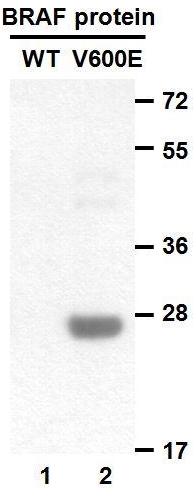
Preservative: no

Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH 7.4, 150 mM NaCl, 50% glycerol

Species Reactivity: Recognizes V600E mutated, but not wild-type B-Raf proteins from vertebrates.

Storage Conditions: Store at -20°C. Avoid freeze / thaw cycles.

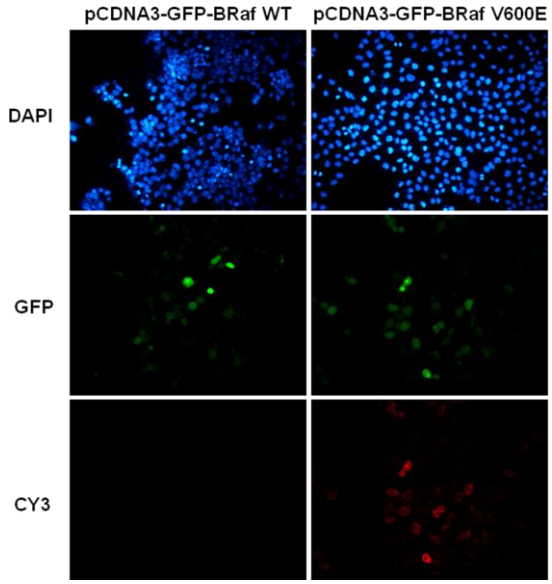
Western blot:



Western blot analysis of recombinant B-raf proteins. Purified His-tagged B-Raf(V600E) protein (amino acids 513-693, lane 2) and corresponding wild type protein (lane 1) were blotted with anti-B-Raf(V600E) monoclonal antibody (Cat. # 26039).

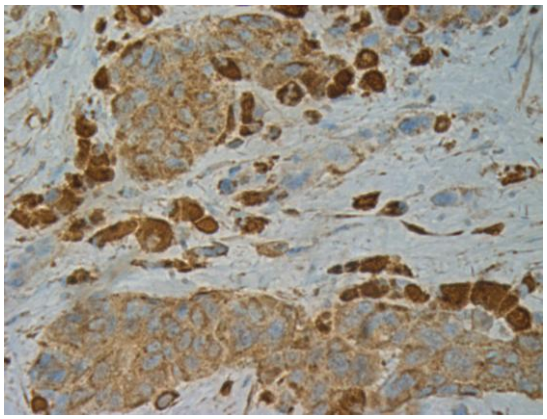
24 Whitewoods Lane, Malvern, PA 19355 Tel: (610) 945-2007 Fax: (610) 945-2008
E-mail: sale@neweastbio.com **Web:** www.neweastbio.com

Immunofluorescence:

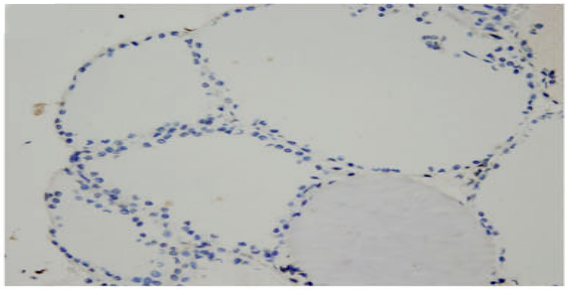


Immunofluorescence of cells expressing B-Raf (V600E) protein with anti-B-Raf (V600E) antibody. HEK293T cells were transfected with pCDNA3-GFP-B-Raf WT plasmid (left column) or pCDNA3-GFP-B-Raf V600E plasmid (right column), then fixed and stained with anti- B-Raf (V600E) monoclonal antibody (Cat. # 26039).

Immunohistochemistry:

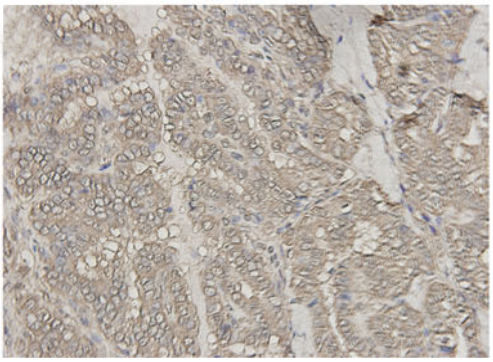


Immunohistochemical analysis of paraffin-embedded human melanoma tissue with anti-B-Raf (V600E) monoclonal antibody (Cat. # 26039). Tissue samples were fixed with formaldehyde and blocked with 1% serum for 15 min at 37 °C. Antigen retrieval was by heat mediation in citrate buffer (pH6). Samples were then incubated with primary antibody (1:100) overnight at 4°C. A HRP-conjugated Goat anti-mouse IgG (dilution 1:50) was used as secondary antibody.



Immunohistochemical analysis of paraffin embedded Thyroid Carcinoma tissue -withanti BRaf(V600E) monoclonal antibody (Cat. # 26039). Tissue samples were fixed withparaffin. Samples were then incubated with primary antibody (1:100) overnight at 4°C. A HRP-conjugated Goat anti-mouse IgG (dilution 1:50) was used as secondary antibody.Allele specific PCR validated to be Negative for BRAF V600E.

24 Whitewoods Lane, Malvern, PA 19355 Tel: (610) 945-2007 Fax: (610) 945-2008
E-mail: sale@neweastbio.com Web: www.neweastbio.com



Immunohistochemical analysis of paraffin embedded Thyroid Carcinoma tissue -with anti BRaf(V600E) monoclonal antibody (Cat. # 26039). Tissue samples were fixed withparaffin. Samples were then incubated with primary antibody (1:100) overnight at 4°C. A HRP-conjugated Goat anti-mouse IgG (dilution 1:50) was used as secondary antibody. Allele specific PCR validated to be Negative for BRAF V600E.

Publications:

1. John K Feller, Shi Yang and Meera Mahalingam. Immunohistochemistry with a mutation-specific monoclonal antibody as a screening tool for the BRAFV600E mutational status in primary cutaneous malignant melanoma. Modern Pathology. 2012. doi:10.1038/modpathol.2012.168