

BRAF (V600A)

Catalog Number: 26199

Gene Symbol: BRAF, BRAF1, RAFB1

Description: Anti-BRAF (V600A) Mouse Monoclonal Antibody

Background: BRAF belongs to a family of serine-threonine protein kinases. As a part of a signaling pathway known as the the RAS/MAPK pathway, it plays an important part in many cellular processes. The processes include cell proliferation, differentiation and transcriptional regulation. 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 which includes the mutation of V600A, human origin.

Tested applications: ELISA, WB, IF, IHC

Recommended dilutions:

ELISA: 1:1000-1:5000

WB: 1:500-1:1000

IF: 1:50-1:100

IHC: 1:25-1:100

Concentration: 1 mg/ml

Host: Mouse

Clonality: Monoclonal

Purity: Purified from ascites

Format: Liquid

Storage buffer:

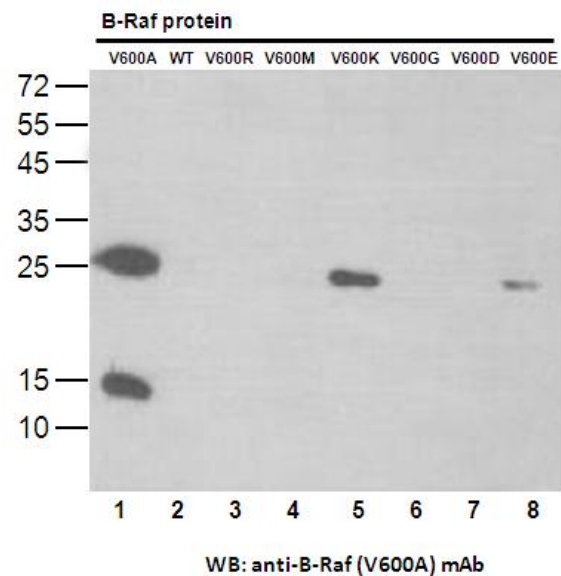
Preservative: no

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

Species Reactivity: Recognizes V600A mutant, but not wild-type BRAF of vertebrates.

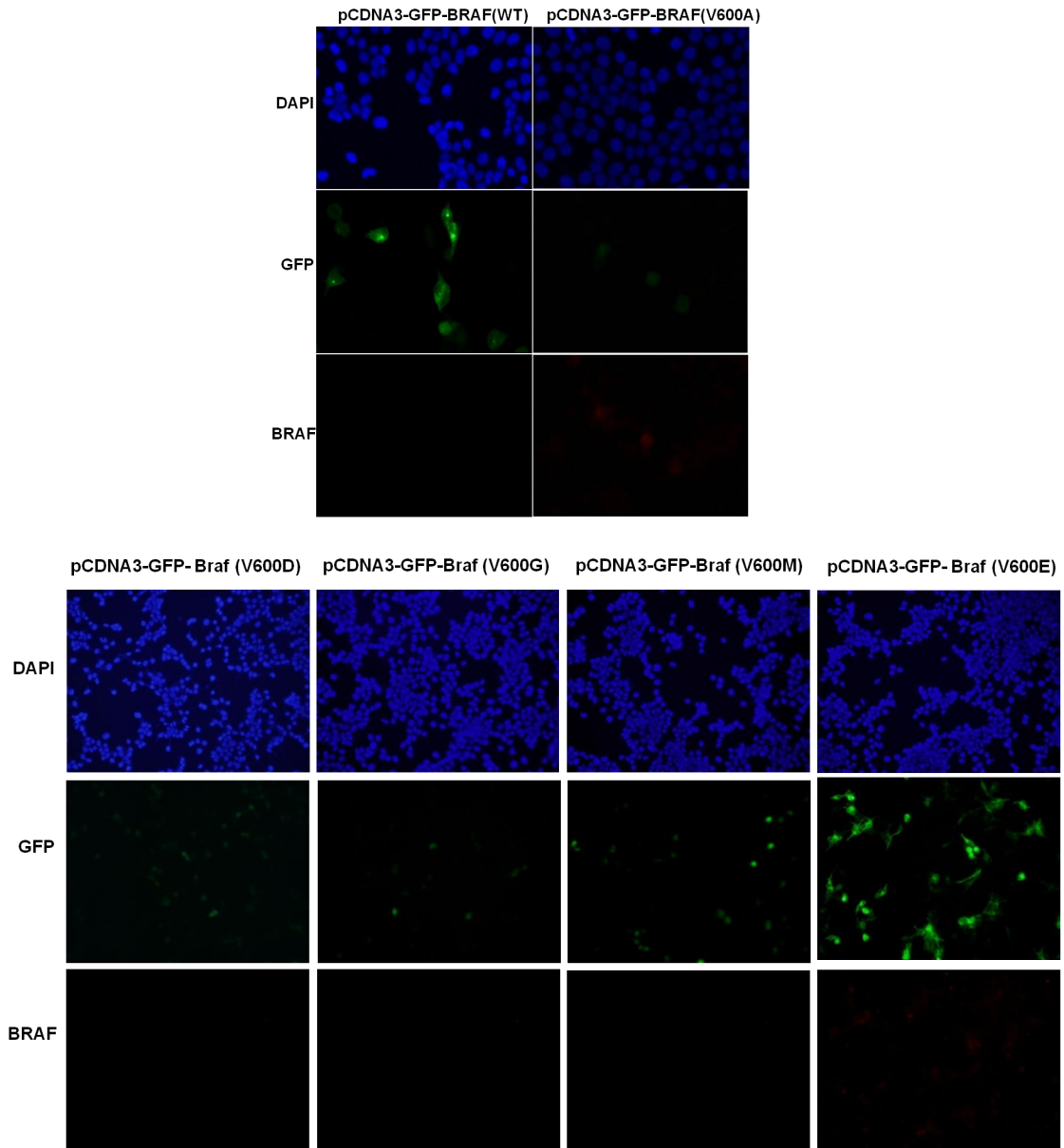
Storage Conditions: Store at $-20^{\circ}C$. Avoid freeze / thaw cycles.

Western blot:



Western blot analysis of recombinant BRAF proteins. Purified His-tagged BRAF (V600A) protein (lane 1), corresponding wildtype protein (lane 2), His-tagged BRAF (V600R) protein (lane 3), His-tagged BRAF (V600M) protein (lane 4), His-tagged BRAF (V600K) protein (lane 5), His-tagged BRAF (V600G) protein (lane 6), His-tagged BRAF (V600D) protein (lane 7) and His-tagged BRAF (V600E) protein (lane 8) were blotted with anti-BRAF (V600A) monoclonal antibody (Cat. #26199).

Immunofluorescence:



Immunofluorescence of cells expressing BRAF proteins with anti-BRAF (V600A) antibody.

HEK293T cells were transfected with

pCDNA3-GFP-BRAF (WT) plasmid, pCDNA3-GFP-BRAF (V600A) plasmid,

pCDNA3-GFP-BRAF (V600D) plasmid, pCDNA3-GFP-BRAF (V600G) plasmid

pCDNA3-GFP-BRAF (V600M) plasmid or pCDNA3-GFP-BRAF (V600E) plasmid,

then fixed and stained with anti-BRAF (V600A) monoclonal antibody (Cat. #26199).