

Product datasheet for CF500458

OriGene Technologies, Inc.

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B Raf (BRAF) Mouse Monoclonal Antibody [Clone ID: OTI3C3]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI3C3

Applications: IHC, IP, WB **Recommended Dilution:** WB 1:2000

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full-length protein expressed in 293T cell transfected with human BRAF expression vector

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

Reconstitution Method: For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 84.4 kDa

Gene Name: B-Raf proto-oncogene, serine/threonine kinase

Database Link: NP 004324

Entrez Gene 109880 MouseEntrez Gene 114486 RatEntrez Gene 673 Human

P15056





Background:

This gene encodes a protein belonging to the raf/mil family of serine/threonine protein kinases. This protein plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. Mutations in this gene are associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. Mutations in this gene have also been associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. A pseudogene, which is located on chromosome X, has been identified for this gene

Synonyms: B-raf; B-RAF1; BRAF1; NS7; RAFB1
Protein Families: Druggable Genome, Protein Kinase

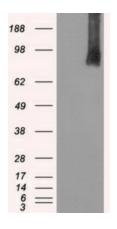
Protein Pathways: Acute myeloid leukemia, Bladder cancer, Chemokine signaling pathway, Chronic myeloid

leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Glioma, Insulin signaling pathway, Long-term depression, Long-term potentiation, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation

of actin cytoskeleton, Renal cell carcinoma, Thyroid cancer, Vascular smooth muscle

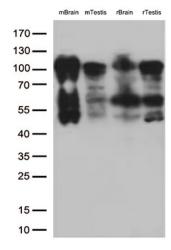
contraction

Product images:

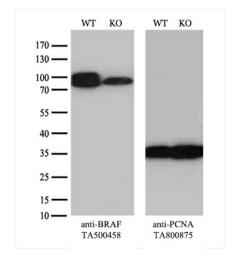


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY BRAF ([RC211013], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-BRAF. Positive lysates [LY401382] (100ug) and [LC401382] (20ug) can be purchased separately from OriGene.

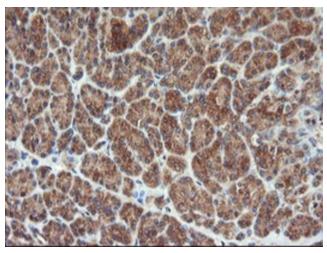




Western blot analysis of extracts (35ug) from 4 tissue lysates by using anti-BRAF monoclonal antibody (1:500).

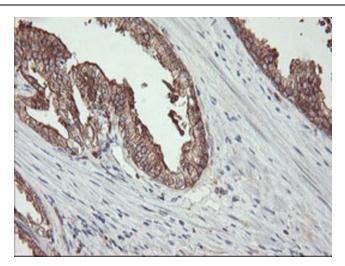


Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and BRAF-Knockout HeLa cells (KO, Cat# [LC835315]) were separated by SDS-PAGE and immunoblotted with anti-BRAF monoclonal antibody [TA500458] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.

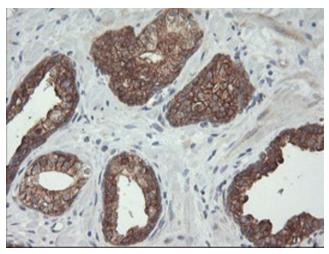


Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-BRAF mouse monoclonal antibody. ([TA500458]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

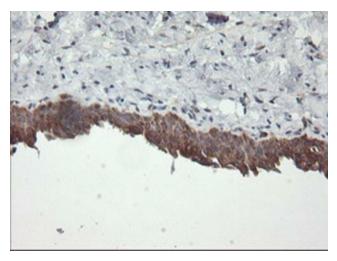




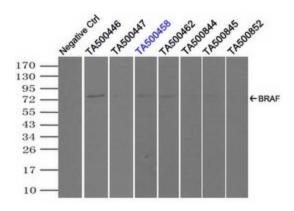
Immunohistochemical staining of paraffinembedded Human prostate tissue within the normal limits using anti-BRAF mouse monoclonal antibody. ([TA500458]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded Carcinoma of Human prostate tissue using anti-BRAF mouse monoclonal antibody. ([TA500458]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded Human bladder tissue within the normal limits using anti-BRAF mouse monoclonal antibody. ([TA500458]). Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunoprecipitation (IP) of BRAF by using TrueMab monoclonal anti-BRAF antibodies (Negative control: IP without adding anti-BRAF antibody.). For each experiment, 500ul of DDK tagged BRAF overexpression lysates (at 1:5 dilution with HEK293T lysate), 2ug of anti-BRAF antibody and 20ul (0.1mg) of goat anti-mouse conjugated magnetic beads were mixed and incubated overnight. After extensive wash to remove any non-specific binding, the immunoprecipitated products were analyzed with rabbit anti-DDK polyclonal antibody.