

For Research Use Only

BRAF Polyclonal antibody

Catalog Number: 20899-1-AP

17 Publications



Basic Information

| | | |
|---|---|--|
| Catalog Number: 20899-1-AP | GenBank Accession Number: BC101757 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 450 ug/ml by Nanodrop; | GeneID (NCBI): 673 | Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:250-1:1000 IF/ICC: 1:200-1:800 |
| Source: Rabbit | UNIPROT ID: P15056 | |
| Isotype: IgG | Full Name: v-raf murine sarcoma viral oncogene homolog B1 | |
| Immunogen Catalog Number: AG15014 | Calculated MW: 766 aa, 84 kDa | |
| | Observed MW: 65-70 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: WB : HT-29 cells, HEK-293 cells, HeLa cells, K-562 cells, Jurkat cells, NIH/3T3 cells IHC : human lymphoma tissue, human malignant melanoma tissue, human testis tissue, human thyroid cancer tissue IF/ICC : NIH/3T3 cells, HeLa cells |
| Cited Applications: WB, IHC, IF | |
| Species Specificity: human, mouse | |
| Cited Species: human, mouse, chicken | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

B-Raf proto-oncogene serine/threonine kinase(BRAF), is a protein belonging to the raf/mil family of serine/threonine protein kinases. BRAF plays a role in regulating the MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion. BRAF is associated with cardiofaciocutaneous syndrome, a disease characterized by heart defects, mental retardation and a distinctive facial appearance. BRAF is also associated with various cancers, including non-Hodgkin lymphoma, colorectal cancer, malignant melanoma, thyroid carcinoma, non-small cell lung carcinoma, and adenocarcinoma of lung. BRAF plays a role in the PD-1/PDL-1 pathway. In some cancers, BRAF is activated by rearrangements that fuse its kinase domain to 5' partner genes and then has different molecular weights (PMID: 23890088). BRAF has several isoforms, the calculated molecular weight of BRAF is 84 kDa, but the observed molecular weight is about 65 kDa(isoform).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|----------------------------|-------------|
| Xiaoyan Wang | 32900481 | Biochem Biophys Res Commun | WB |
| Serdar Karakurt | 33110363 | Turk J Biol | WB |
| Zhaoyu Yang | 32463597 | Thorac Cancer | WB |

Storage

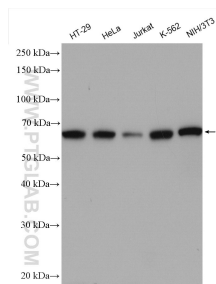
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

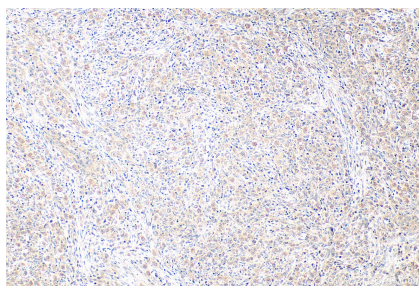
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

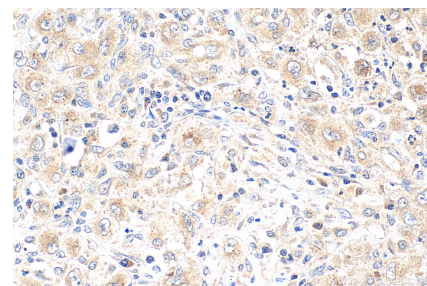
Selected Validation Data



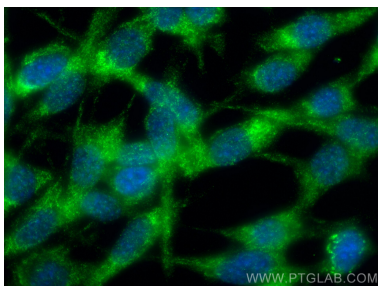
Various lysates were subjected to SDS PAGE followed by western blot with 20899-1-AP (BRAF antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 20899-1-AP (BRAF antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lymphoma tissue slide using 20899-1-AP (BRAF antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed NIH/3T3 cells using BRAF antibody (20899-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).