

Product datasheet for PH311013

B Raf (BRAF) (NM_004333) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BRAF MS Standard C13 and N15-labeled recombinant protein (NP_004324)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211013
Predicted MW:	84.4 kDa
Protein Sequence:	>RC211013 protein sequence Red=Cloning site Green=Tags(s)

MAALSGGGGGAEPGQALFNGDMEPEAGAGAGAAASSAADPAIPEEVWNIKQMIKLTQEHIALLDKFGG
EHNPPSIYLEAYEEYTSKLDALQREQQLLESNGTDFSVSSASMDTVTSSSSSLSVLPSSLVVFQN
PTDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKKALMMRGLIPECCAVYRIQDGEKKPIGW
DTDISWL TGEELHVEVLENVPLTTHNFVRKTFFTLAFCDFCRKLFLQGFRCQTCGYKFHQRCEVPLMC
VNYDQLDLLFVSKFFEHHPIPQEEASLAETAL TSGSSPSAPASDSIGPQILTSPSPSKSIPQPFRPAD
EDHRNQFGQRDRSSAPNVHINTIEPVNIDDLIRDQGFGRDGGSTTGLSATPPASLPGSLTNVKALQKSP
GPQREKSSSSSEDRNRMKTLGRRDSSDDWEIPDGQITVGQRIGSGSFGTVYKKGWHGDVAVKMLNVTAP
TPQQLQAFKNEVGVLRKTRHVNILLFMGYSTKPQLAIVTQWCEGSSLYHHLHIETKFEMIKLIDJARQT
AQGMDYLHAKSIIHRDLKSNINIFLHEDLTVKIGDFGLATVKSRSWGS HQFEQLSGSILWMAPEVIRMQDK
NPYSFQSDVYAFGIVLYELMTGQLPYSNINNRDQIIFMVGRGYLSPDL SKVRSNCPKAMKRLMAECLKKK
RDERPLFPQILASIELLARSLPKIHRSAEPLNLRAGFTEDFSLYACASPKTPIQAGGYGAFPVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004324



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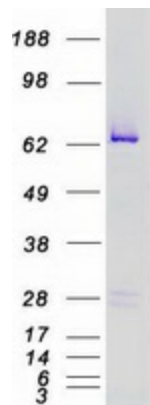
RefSeq Size:	2949
RefSeq ORF:	2298
Synonyms:	B-raf; B-RAF1; BRAF1; NS7; RAFB1
Locus ID:	673
UniProt ID:	P15056
Cytogenetics:	7q34

Summary: 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. [provided by RefSeq, Aug 2017]

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:



Coomassie blue staining of purified BRAF protein (Cat# [TP311013]). The protein was produced from HEK293T cells transfected with BRAF cDNA clone (Cat# [RC211013]) using MegaTran 2.0 (Cat# [TT210002]).