

## Product datasheet for **AM06317SU-N**

### **B Raf (BRAF) Mouse Monoclonal Antibody [Clone ID: 1H12]**

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	1H12
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/10000. <b>Western Blot:</b> 1/500 - 1/2000. <b>Immunofluorescence:</b> 1/200 - 1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/200 - 1/1000.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human BRAF expressed in E. Coli.
Specificity:	Recognizes Threonine Protein Kinase BRAF
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	87 kDa
Gene Name:	B-Raf proto-oncogene, serine/threonine kinase
Database Link:	<a href="#">Entrez Gene 673 Human P15056</a>



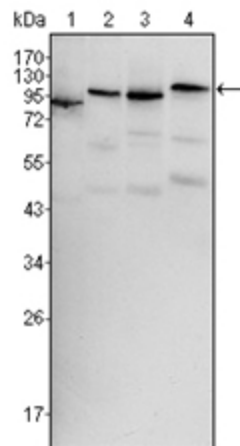
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**Background:**

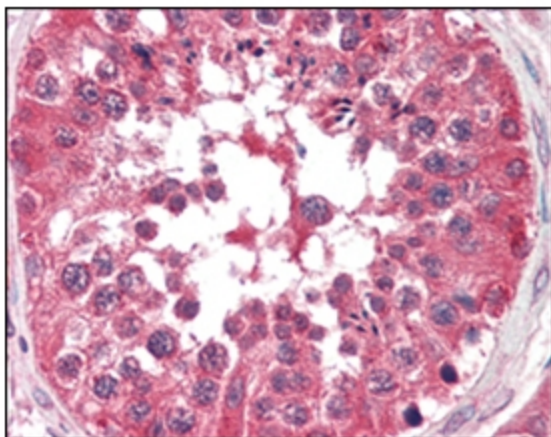
BRAF: v-raf murine sarcoma viral oncogene homolog B1, also known as BRAF1; RAFB1; B-RAF1; FLJ95109 is the main effectors recruited by GTP-bound Ras to activate the MEK-MAP kinase pathway. B-Raf contains three consensus Akt phosphorylation sites (Ser364, Ser428, and Thr439). B-Raf is a key regulatory molecule of the mitogen-activated protein kinase (MEK), it has a long amino-terminal region, the region is essential for homo-dimerization of B-Raf and hetero-dimerization of B-Raf and c-Raf at the plasma membrane, followed by phosphorylation of Thr118 in the amino-terminal B-Raf-specific region. Notably, in calcium ionophore-stimulated HeLa cells, B-Raf could propagate signals to MEK under the basal level of GTP-Ras. Expression of Raf-B is highly restricted with highest levels in the cerebrum and testes and defects in braf are involved in a wide range of cancers. The BRAF gene mutation is frequently detected in papillary thyroid carcinoma, melanocytic nevi, primary cutaneous melanomas and colorectal cancers.

**Synonyms:**

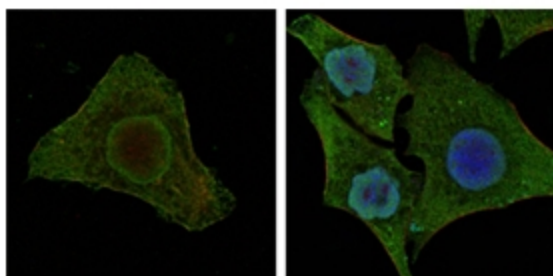
BRAF, BRAF1, RAFB1, p94

**Product images:**

Western blot analysis using BRAF antibody Cat.-No AM06317SU-N against HeLa (Lane 1), HL60 (Lane 2), HepG2 (Lane 3) and NIH/3T3 (Lane 4) cell lysate.



Immunohistochemical analysis of paraffin-embedded human testis tissues using BRAF antibody Cat.-No AM06317SU-N



Confocal Immunofluorescence analysis of MCF-7 (left) and HepG2 (right) cells using Monoclonal anti-BRAF antibody Cat.-No AM06317SU-N (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye