10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BRAF35 Rabbit pAb

Catalog # AP99533

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9P0W2
Other Accession	Q9P0W2
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35813
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human BRAF35
Epitope Specificity	1-100/317
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 HMG box DNA-binding domain.
SUBUNIT	Component of a BHC histone deacetylase complex thatcontains HDAC1, HDAC2, HMG20B/BRAF35, KDM1A, RCOR1/CoREST andPHF21A/BHC80. The BHC complex may also contain ZMYM2, ZNF217,ZMYM3, GSE1 and GTF2I. Interacts with the BRCA2 tumor suppressorprotein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The breast cancer susceptibility gene (BRCA1) localizes to chromosome 17q. Mutations within this gene account for approximately 45% of families with high incidence of breast cancer and at least 80% of families with increased incidence of both early-onset breast cancer and ovarian cancer. A second breast cancer susceptibility gene, BRCA2, located on chromosome 13q12-13, also confers a high incidence of breast cancer, but unlike BRCA1, BRCA2 does not confer a substantially elevated risk of ovarian cancer. The BRCA2-Associated Factor 35 (BRAF35) protein forms a complex with BRCA2, which associates with condensed chromatin during histone H3 phosphorylation. BRAF35 expression levels are highest in proliferating tissues and parallel BRCA2 expression patterns. The structure of BRAF35 includes a kinesin-like coiled coil domain and a nonspecific DNA binding HMG domain. The chromatin localization of BRAF35 and antibody microinjection studies indicate a role for the BRAF35/BRCA2 complex in cell cycle regulation.

Additional Information

Gene ID	10362
Other Names	BRAF25; BRAF35; HMGX2; HMGXB2; PP7706; SMARCE1r; SOXL; pp8857; HM20B_HUMAN; HMG20B; SMARCE1-related protein; BRCA2-associated factor 35; HMG box-containing protein 20B; HMG domain-containing protein 2; HMG

	domain-containing protein HMGX2; Sox-like transcriptional factor; Structural DNA-binding protein BRAF35; high mobility group 20B; high-mobility group 20B; HMG box domain containing 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HMG20B
Synonyms	BRAF35, HMGX2, HMGXB2, SMARCE1R
Function	Required for correct progression through G2 phase of the cell cycle and entry into mitosis. Required for RCOR1/CoREST mediated repression of neuronal specific gene promoters.
Cellular Location	Nucleus. Chromosome. Note=Localized to condensed chromosomes in mitosis in conjunction with BRCA2
Tissue Location	Ubiquitously expressed in adult tissues.

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