Recombinant BRAF (V600E Mutant Specific) (Prognostic Marker) Antibody

Rabbit Monoclonal Antibody [Clone BRAF-V600E/13276R]

Catalog No	Format	Size
673-RBM7-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
673-RBM7-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
673-RBM7-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

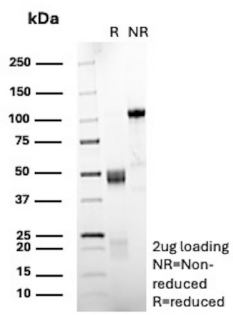
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

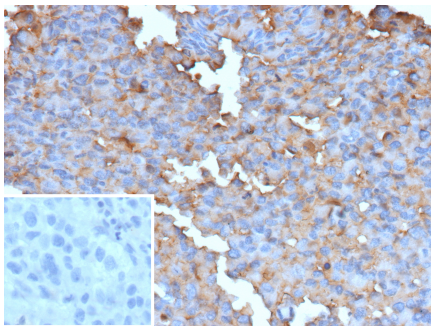
Clone	BRAF-V600E/13276R
Immunogen	Recombinant fragment of the human BRAF (V600E) (Mutant Specific) protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	84.44kDa
Cellular Localization	Cell membrane, Cytoplasm, Nucleus
Species Reactivity	Human
Positive Control	A431, Jurkat or HeLa cells. Human melanoma, brain, testis or colon carcinoma.

**Optimal dilution for a specific application should be determined.*

Product Images for Recombinant BRAF (V600E Mutant Specific) (Prognostic Marker) Antibody



SDS-PAGE Analysis of Purified BRAF Recombinant Rabbit Monoclonal Antibody(BRAF-V600E/13276R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human melanoma stained with BRAFV600E Recombinant Rabbit Monoclonal Antibody (BRAF-V600E/13276R). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

The BRAF gene encodes a protein that is part of the RAS-RAF-MEK-ERK signaling pathway, which regulates cell division and proliferation. The V600E mutation in the BRAF gene leads to the production of a constitutively active BRAF protein, resulting in uncontrolled cell growth and division. Identifying the presence of this mutation is crucial for diagnosing and guiding the treatment of certain cancers. The BRAF (V600E) antibody is used in immunohistochemistry to detect the presence of a specific mutation in the BRAF gene known as V600E. This mutation is commonly associated with various cancers, including melanoma, colorectal cancer, and certain types of thyroid cancer, lung cancer, and Hairy cell leukemia. The BRAF (V600E) antibody specifically binds to the mutated BRAF protein, allowing pathologists to detect the mutation in cancer tissue. Immunohistochemistry using this antibody is often employed in the evaluation of tumor specimens to aid in the diagnosis and classification of cancers.

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.