

BRAF (V600E) (ZR6)

Rabbit monoclonal Antibody

Host: Rabbit
Specificity: Human
Immunogen: A peptide corresponding to BRAF V600E mutant
Ig Class: IgG
Storage: Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

Specifications: BRAF (V600E) (ZR6) Rabbit monoclonal primary antibody detects BRAF(V600E) protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain BRAF(V600E) protein.

Localization: Cytoplasmic.

Intended Use: Research Use Only (RUO). This antibody is not for diagnostic use.

Description: 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: Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

References:

1. Koperek O, et al: Am J Surg Pathol. 2012, 36:844-50
2. Long GV, et al: Am J Surg Pathol. 2013, 37:61-5.



Z2811RL-R/ Z2811RS-R/ Z2811RT-R/ Z2811RP-R (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)



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(research
use only)



(lot number)



(catalogue
number)



(expiry date)



(temperature
limit)



(consult
Instructions
for Use)