### Overview

**Product name**  
Anti-BRAF (mutated V600 E) antibody [RM8]  

**Description**  
Rabbit monoclonal [RM8] to BRAF (mutated V600 E)

**Host species**  
Rabbit

**Specificity**  
ab200535 reacts to the B Raf V600E mutant. No cross reactivity with wild type B Raf.

**Tested applications**  
Suitable for: WB, IHC-P

**Species reactivity**  
Reacts with: Human

**Immunogen**  
Synthetic peptide corresponding to Human BRAF (mutated V600 E).  
Database link: P15056

**Positive control**  
Cell lysates prepared from cell lines expressing endogenous B Raf (mutated V600 E); Human melanoma and Human colon cancer tissues; WiDr cells.

### Properties

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<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</td>
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| **Storage buffer** | Preservative: 0.09% Sodium azide  
Constituents: 1% BSA, 48% PBS, 50% Glycerol |
| **Purity** | Protein A purified |
| **Purification notes** | Purified from an animal origin–free culture supernatant. |
| **Clonality** | Monoclonal |
| **Clone number** | RM8 |
| **Isotype** | IgG |

### Applications

Our Abpromise guarantee covers the use of ab200535 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Involved in the transduction of mitogenic signals from the cell membrane to the nucleus. May play a role in the postsynaptic responses of hippocampal neuron.

Tissue specificity
Brain and testis.

Involvement in disease
Note=Defects in BRAF are found in a wide range of cancers. Defects in BRAF may be a cause of colorectal cancer (CRC) [MIM:114500].
Defects in BRAF are involved in lung cancer (LNCR) [MIM:211980]. Defects in BRAF are involved in non-Hodgkin lymphoma (NHL) [MIM:605027]. NHL is a cancer that starts in cells of the lymph system, which is part of the body's immune system. NHLs can occur at any age and are often marked by enlarged lymph nodes, fever and weight loss. Defects in BRAF are a cause of cardiofaciocutaneous syndrome (CFC syndrome) [MIM:115150]; also known as cardio-facio-cutaneous syndrome. CFC syndrome is characterized by a distinctive facial appearance, heart defects and mental retardation. Heart defects include pulmonic stenosis, atrial septal defects and hypertrophic cardiomyopathy. Some affected individuals present with ectodermal abnormalities such as sparse, friable hair, hyperkeratotic skin lesions and a generalized ichthyosis-like condition. Typical facial features are similar to Noonan syndrome. They include high forehead with bitemporal constriction, hypoplastic supraorbital ridges, downslanting palpebral fissures, a depressed nasal bridge, and posteriorly angulated ears with prominent helices. The inheritance of CFC syndrome is autosomal dominant. Defects in BRAF are the cause of Noonan syndrome type 7 (NS7) [MIM:613706]. Noonan syndrome is a disorder characterized by facial dysmorphic features such as hypertelorism, a downward eyeslant and low-set posteriorly rotated ears. Other features can include short stature, a short neck with webbing or redundancy of skin, cardiac anomalies, deafness, motor delay and variable intellectual deficits. Defects in BRAF are the cause of LEOPARD syndrome type 3 (LEOPARD3) [MIM:613707]. LEOPARD3 is a disorder characterized by lentigines, electrocardiographic conduction abnormalities, ocular hypertelorism, pulmonic stenosis, abnormalities of genitalia, retardation of growth, and sensorineural deafness. Note=A chromosomal aberration involving BRAF is found in pilocytic astrocytomas. A tandem duplication of 2 Mb at 7q34 leads to the expression of a KIAA1549-BRAF fusion protein with a constitutive kinase activity and inducing cell transformation.

Sequence similarities
Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. RAF subfamily. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1 protein kinase domain. Contains 1 RBD (Ras-binding) domain.

Cellular localization
Nucleus. Cytoplasm. Cell membrane. Colocalizes with RGS14 and RAF1 in both the cytoplasm and membranes.

Images
Western blot - Anti-BRAF (mutated V600 E) antibody [RM8] (ab200535)

All lanes: Anti-BRAF (mutated V600 E) antibody [RM8] (ab200535) at 2 µg/ml

Lane 1: Cell lysates prepared from cell lines expressing endogenous B Raf (mutated V600 E);
Lane 2: Cell lysates prepared from cell lines expressing endogenous wild type protein

Predicted band size: 84 kDa

Immunohistochemsitry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRAF (mutated V600 E) antibody [RM8] (ab200535)

Immunohistochemical analysis of formalin fixed and paraffin embedded WiDr cells labeling B Raf (mutated V600 E) with ab200535 at 5 µg/mL.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BRAF (mutated V600 E) antibody [RM8] (ab200535)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human melanoma tissue labeling B Raf with ab200535 at 5 µg/mL.

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