**Mouse Anti-BRAF V600E [MD47]: MC0129**

**Intended Use:** For Research Use Only

**Description:** Serine/threonine-protein kinase B-raf (BRAF) is a member of the Raf family. BRAF mutations are frequent in benign and malignant human tumors. BRAF V600E mutation accounts for the vast majority of BRAF alterations and the mutation induces a conformational change of the activation segment leading to a constitutive kinase activity of BRAF and consecutive phosphorylation of downstream targets. BRAF V600E mutation have been detected in melanoma, papillary thyroid carcinoma, pleomorphic xanthoastrocytomas, Langerhans cell histiocytosis, borderline ovarian cancer, gangliogioma, colorectal carcinoma, and pilocytic astrocytoma.

**Specifications:**
- **Clone:** MD47
- **Source:** Mouse
- **Isotype:** IgG2b
- **Reactivity:** Human
- **Localization:** Cytoplasm
- **Formulation:** Antibody in PBS pH7.4, containing BSA and \( \leq 0.09\% \) sodium azide (NaN3)
- **Storage:** Store at 2°- 8°C
- **Applications:** IHC, ELISA, IP, WB

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRAF V600E Concentrated</td>
<td>MC0129</td>
<td>1 ml</td>
</tr>
</tbody>
</table>

**IHC Procedure***:
- **Positive Control Tissue:** Colon carcinoma with BRAF V600E mutation
- **Concentrated Dilution:** 10-50
- **Pretreatment:** Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
- **Incubation Time and Temp:** 30-60 minutes @ RT
- **Detection:** Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

**References:**

FFPE human melanoma stained with anti-BRAF V600E using DAB