

Mouse Anti-BRAF [F-7]: MC0675, MC0675RTU7

Intended Use: For Research Use Only

Description: Biotin Several serine/threonine protein kinases have been implicated as intermediates in signal transduction pathways. These include ERK/MAP kinases, ribosomal S6 kinase (Rsk) and Raf-1. Raf-1 is a cytoplasmic protein with intrinsic serine/threonine activity. It is broadly expressed in nearly all cell lines tested to date and is the cellular homolog of v-Raf, the product of the transforming gene of the 3611 strain of murine sarcoma virus. The unregulated kinase activity of the v-Raf protein has been associated with transformation and mitogenesis while the activity of Raf-1 is normally suppressed by a regulatory N-terminal domain. Raf-A, a second member of the Raf gene family of serine/threonine protein kinases, exhibits substantial homology to Raf-1 within the kinase domain of the two molecules, but less homology elsewhere. Expression of Raf-B is highly restricted with highest levels in the cerebrum and testis.

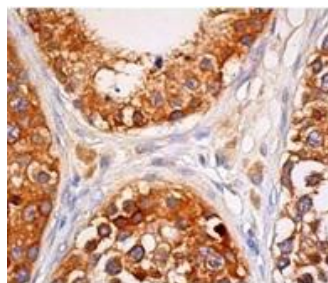
Specifications:

Clone: F-7
Source: Mouse
Isotype: IgG2a
Reactivity: Human, mouse, rat
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing < BSA and < 0.09% sodium azide (NaN3)
Storage: Store at 2°- 8°C
Applications: IHC, ELISA, ICC/IF, IP, WB
Package:

Description	Catalog No.	Size
BRAF Concentrated	MC0675	1 ml
BRAF Prediluted	MC0675RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Parathyroid gland tissue
Concentrated Dilution: 50-250
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.



FFPE human testis tissue stained with anti-BRAF in seminiferous ducts

References:

1. Optogenetically controlled RAF to characterize BRAF and CRAF protein kinase inhibitors. Chatelle, CV. et al. Sci Rep. 6: 23713, 2016.
2. HSP70 Inhibition Limits FAK-Dependent Invasion and Enhances the Response to Melanoma Treatment with BRAF Inhibitors. Budina-Kolomets, A. et al. Cancer Res.. 76: 2720-30, 2016.
3. Activation loop phosphorylation regulates B-Raf in vivo and transformation by B-Raf mutants. Köhler, M. et al. The EMBO journal. 35: 143-61, 2016.
4. SPRED1 Interferes with K-ras but Not H-ras Membrane Anchorage and Signaling. Siljamäki, E. et al. Mol. Cell. Biol. 36: 2612-25, 2016.

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Rev. A