# RAF1

CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas

STATUS: Validated

TYPE: Rat monoclonal

CLONE NAME: EMI411E

PROTEIN: RAF proto-oncogene serine/threonine-protein kinase

PROTEIN WEB: https://www.uniprot.org/uniprot/Q99N57

ANTIGEN USED: His-RAF1 (fragment 189-353)

FUSION PARTNER: NS1/Ag4-1 (NS1) cells

ISOTYPE: IgG2a

SPECIES REACTIVITY: human and mouse

PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

#### **DESCRIPTION**

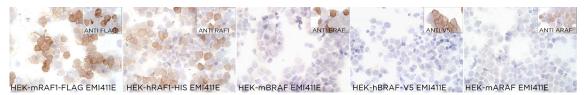
Serine/threonine-protein kinase that acts as a regulatory link between the membrane-associated Ras GTPases and the MAPK/ERK cascade, and this critical regulatory link functions as a switch determining cell fate decisions including proliferation, differentiation, apoptosis, survival and oncogenic transformation. RAF1 activation initiates a mitogen-activated protein kinase (MAPK) cascade that comprises a sequential phosphorylation of the dual-specific MAPK kinases (MAP2K1/MEK1 and MAP2K2/MEK2) and the extracellular signal-regulated kinases (MAPK3/ERK1 and MAPK1/ERK2).

### **APPLICATIONS**

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytospins									
Recommended	EMI41	Neat	supernatant						
	1E								
Paraffin tissue									

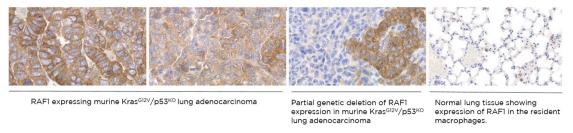
## Monoclonal Antibodies Catalogue

Recommended	EMI41 1E	Neat	supernatant						
Immunofluorescence									



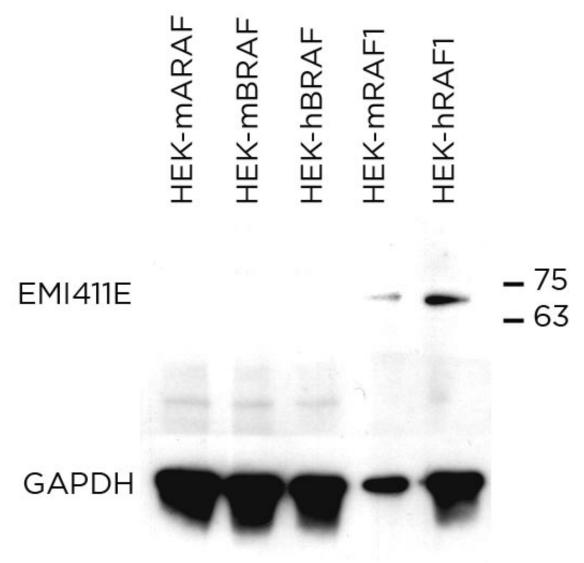
# EMI411E mAb is able to detect human and mouse RAF1 protein in immunocytochemistry

To confirm that EMI411E mAb recognizes human and mouse RAF1 protein and do not cross react with mA-RAF and m/hBRAF, immunocytochemistry on frozen cytospin preparations of human and mouse proteins expressed in HEK293T were performed. Anti-FLAG, RAF1, B-RAF and V5 Abs were used as positive controls.



## EMI411E mAb can be used to detect RAF1 protein in mouse paraffin tissues

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species		
Western Blotting										
Recommended	EMI411E	Neat	supernatant			73kDa	73kDa			
Immunoprecipitation										



**EMI411E mAb** is able to detect mouse and human RAF1 protein by WB. LANES

Lane 1 HEK-mARAF (10ug) (-)

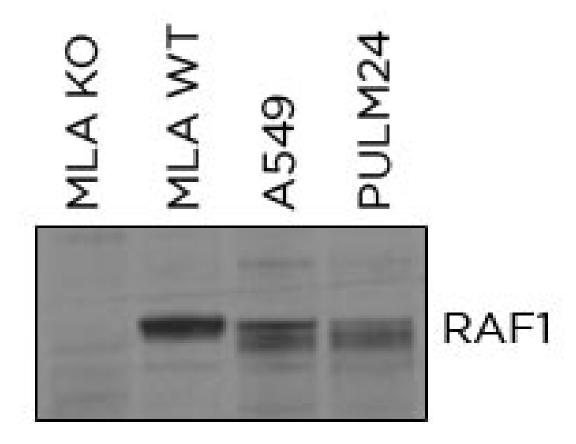
Lane 2 HEK-mBRAF (10ug) (-)

Lane 3 HEK-hBRAF (10ug) (-)

Lane 4 HEK-mRAF1 (10ug) (+)

Lane 5 HEK-hRAF1 (10ug) (+)

GAPDH was used as loading control



# EMI411E mAb is able to detect mouse and human RAF1 protein by WB.

**LANES** 

Lane 1 mouse Lung Adenocarcinoma RAF1 KO (20ug) (-)

Lane 2 mouse Lung Adenocarcinoma RAF1 WT (20ug) (+)

Lane 3 human A549 (RAF1 WT) (20ug) (+)

Lane 4 human PULM24 (RAF1 WT) (20ug) (+)