

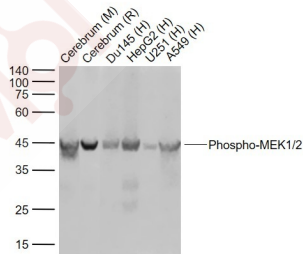
## Anti-Phospho-MEK1/2 (Ser218, Ser222) Antibody (7E636)

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 43 kDa. Actual: 45 kDa.
Clone:	7E636
Purification:	Protein A purified

### Applications

Sample:	Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Lane 3: Human Du145 cell lysates Lane 4: Human HepG2 cell lysates
Verified Activity:	Lane 5: Human U251 cell lysates Lane 6: Human A549 cell cell lysates Primary: Anti-Phospho-MEK1/2 (Ser218 + Ser222) (TMAB-01451) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 45 kDa



Application:	ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	ICC/IF=1:50-200; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500; WB=1:500-2000

### Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human MEK1 around the phosphorylation site of Ser218/222
Antigen Species:	Human
Gene ID:	407835
Uniprot ID:	P36507
Synonyms:	ERK-2;Phospho-MEK1/2 (S218, 222);p-MEK1/2 (S218, 222);p44-MAPK;P44MAPK;P44ERK1;PRKM3;ERK-1;MEK1/2 (p-Ser218, 222);MEK1/2 (p-S218, 222);HUMKER1A;ERT2;Erk2;ERK1;p44-ERK1;HS44KDAP;p-MEK1/2 (Ser218, 222)
Biology Area:	MAPK pathway,MAPK Pathway,Tyrosine Kinases

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### Research Background

The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008].

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