Data Sheet (Cat.No.TMAC-03257)

Anti-Phospho-RAF1 (Ser259) Antibody (2M259)

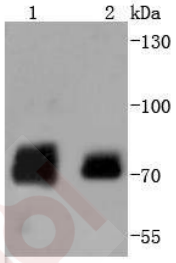
Product Details

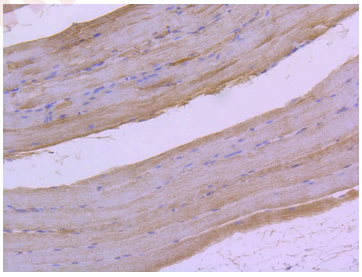
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 73 kDa.
Clone:	2M259
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Phospho-Raf1 (S259) on different lysates using anti-Phospho-Raf1 (S259) antibody at 1/1,000 dilution. Positive control: Lane 1: Human skeletal muscle, Lane 2: Hela.
2. Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue using anti-Phospho-Raf1 (S259) antibody. Counter stained with hematoxylin.





Application:	IHC,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200

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:	A synthesized phosphopeptide: human Raf1 around the phosphorylation site of Ser259
Antigen Species:	Human
Uniprot ID:	P04049
Synonyms:	Phospho-RAF1 (S259);p-RAF1 (Ser259);RAF1 (p-Ser259);RAF1 (p-S259);p-RAF1 (S259)

Research Background

Raf-1 is a ubiquitously expressed cytoplasmic protein with intrinsic serine/threonine kinase activity. Raf-1, or c-Raf, 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 is associated with cellular transformation and mitogenesis. Raf-1 is normally suppressed by its regulatory N-terminal domain. Raf-1 is activated in response to a variety of tyrosine kinase receptors as well as in response to pp60v-Src expression. Specifically, Raf-1 is phosphorylated in the catalytic domain at Ser 338 and, to a lesser extent, Ser 339. This phosphorylation requires the co-activation of PI 3-kinase and the Ras signaling pathway. Raf-1 is also phosphorylated on Tyr 340 and 341, which induces the phosphorylation of MEK. Phosphorylation of Ser 621 is essential for the catalytic activity of Raf-1 and downregulation by c-AMP-dependent protein kinase A (PKA). PKA also phosphorylates Raf-1 on Ser 43 and Ser 259. PKA phosphorylation of Ser 259 inhibits Raf-1 and decreases the phosphorylation necessary for Raf-1 activation at Ser 338.

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