

Product datasheet for **TA389201**

ARAF Mouse Antibody [Clone ID: M289]

Product data:

Product Type:	Primary Antibodies
Clone Name:	M289
Applications:	WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Immunogen:	Clone (M289) was generated from a sequence corresponding to amino acids in the N-terminal region of human A-Raf. This A-Raf sequence has high homology to rat and mouse A-Raf.
Specificity:	This antibody detects a 68 kDa* protein corresponding to the molecular mass of A-Raf on SDS-PAGE immunoblots of human SKN-SH and Jurkat cells.
Formulation:	PBS + 1 mg/ml BSA, 0.05% NaN ₃ and 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	68
Database Link:	P10398



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Background:

The Ras-Raf-MAP kinase signaling pathway is involved in control of cell proliferation and differentiation. The Raf kinase family includes A-Raf, B-Raf, and C-Raf. Each family member has three highly conserved regions (CR1-3). The N-terminal CR1 contains the Ras-GTP-binding domain. The CR2 contains a negative regulatory serine residue (C-Raf (S259)/B-Raf(S365)) that may bind 14-3-3 proteins. The CR3 is the catalytic domain that contains phosphorylation sites for Raf-regulating enzymes within two segments, the N-region and the activation segment. Activation of C-Raf involves phosphorylation at many sites including Ser-338, Tyr-341, and Ser-471. The latter site is phosphorylated after EGF stimulation and may be important for MEK interaction in both C-Raf and A-Raf. In B-Raf, multiple phosphorylation sites have been identified, but their specific roles are uncertain. Phosphorylation of Ser-446 may prime B-Raf for activation, and Ser-446 and/or Ser-447 phosphorylation may be critical for B-Raf biological activity during PC12 differentiation. Ser-579 is required for growth factor activation and kinase activity.

Note:

Protein G purified tissue culture supernatant.