

MultiPro[™] 5CFLX Anti-Human Phospho-MEK1 (Ser298) (3F10G10)

Catalog Number: G68047-1-5C

Basic Information

Catalog Number:	GenBank Accession Number:	CloneNo.:
G68047-1-5C	BC139729	3F10G10
Size:	GeneID (NCBI):	Conjugate:
500ug/mL	5604	5CFLX
Source:	ENSEMBL Gene ID:	Full Oligo Sequence:
Mouse	ENSG00000169032	CGGAGATGTGTATAAGACAGTGCT CTAATAGTCGGCCCATATAAGAAA
Isotype:	UNIPROT ID:	Barcode Sequence:
IgG1	Q02750	TGCTCTAATAGTCGG
	Full Name:	
	MultiPro [™] 5CFLX Anti-Human Phospho-MEK1 (Ser298) (3F10G10)	

Applications

Tested Applications:
Single Cell (Intra)

Species Specificity:
Human

Background Information

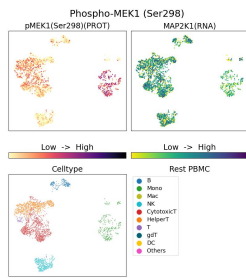
MAP2K1 encodes MAPK1, also known as MEK1. MEK1 variants can enhance MEK1 expression and ERK1 phosphorylation that together lead to continuous activation of MEK/ERK signaling pathway. MEK1 bind directly to ERK2 through a region in the N terminus of MEK. In addition, a proline-rich (PR) regulatory sequence in MEK is also involved in MEK-ERK association and signal propagation. The coupling between MEK1 and ERK2 is enhanced through phosphorylation on S298 in the MEK1 PR region, whereas phosphorylation on MEK1 T292 releases the complex. MEK1 T292 is a substrate of ERK2, but the site is also phosphorylated at a basal level when ERK2 is inhibited, suggesting several regulators of this site. Although the S298 site in MEK2 has been conserved, it lacks the T292 phosphorylation site, and it is not a substrate of PAK1. (PMID: 31972311, PMID: 17928366, PMID: 22177953)

Storage

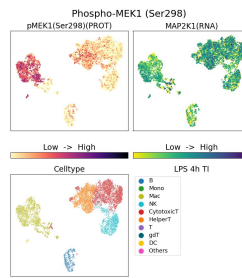
Storage:
2-8°C

Storage Buffer:
PBS with 1mM EDTA and 0.09% sodium azide

Selected Validation Data



G68047-1-5C was used to stain Resting PBMC and analyzed with 10x Genomics Gene Expression Flex with Feature Barcodes and Multiplexing kit with Fix-Stain protocol.



G68047-1-5C was used to stain PBMC under 4hr LPS + TI treatment and analyzed with 10x Genomics Gene Expression Flex with Feature Barcodes and Multiplexing kit with Fix-Stain protocol.