

Resource Summary Report

Generated by [RRID](#) on Aug 2, 2026

Phospho-MEK1/2 (Ser221) (166F8) Rabbit mAb

RRID:AB_490903

Type: Antibody

Proper Citation

Cell Signaling Technology Cat# 2338, RRID:AB_490903

Antibody Information

URL: http://antibodyregistry.org/AB_490903

Proper Citation: Cell Signaling Technology Cat# 2338, RRID:AB_490903

Target Antigen: Phospho-MEK1/2 (Ser221) (166F8) Rabbit mAb

Host Organism: rabbit

Clonality: monoclonal

Comments: Applications: W, IHC-P, F. Consolidation on 11/2018: AB_10117717, AB_10120211, AB_490903, AB_490905. Info: Used By NYUIHC-771. Info: Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:TRUE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE

Antibody Name: Phospho-MEK1/2 (Ser221) (166F8) Rabbit mAb

Description: This monoclonal targets Phospho-MEK1/2 (Ser221) (166F8) Rabbit mAb

Target Organism: rat, h, m, mouse, r, human, mk

Antibody ID: AB_490903

Vendor: Cell Signaling Technology

Catalog Number: 2338

Record Creation Time: 20250820T052239+0000

Record Last Update: 20250820T212626+0000

Ratings and Alerts

- Independent validation by the NYU Lagone was performed for: IHC. This antibody was found to have the following characteristics: Functional in human:TRUE, NonFunctional in human:FALSE, Functional in animal:FALSE, NonFunctional in animal:FALSE - NYU Langone's Center for Biospecimen Research and Development <https://med.nyu.edu/research/scientific-cores-shared-resources/center-biospecimen-research-development>

No alerts have been found for Phospho-MEK1/2 (Ser221) (166F8) Rabbit mAb.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Yang C, et al. (2025) KRAS4B oncogenic mutants promote non-small cell lung cancer progression via the interaction of deubiquitinase USP25 with RNF31. *Developmental cell*, 60(12), 1768.

Jasani N, et al. (2025) PHGDH Induction by MAPK Is Essential for Melanoma Formation and Creates an Actionable Metabolic Vulnerability. *Cancer research*, 85(2), 314.

Stanland LJ, et al. (2025) A first-in-class EGFR-directed KRAS G12V selective inhibitor. *Cancer cell*.

Wang Q, et al. (2025) Shc1 cooperates with Frs2 and Shp2 to recruit Grb2 in FGF-induced lens development. *eLife*, 13.

Liu X, et al. (2024) The deubiquitinase BAP1 and E3 ligase UBE3C sequentially target IRF3 to activate and resolve the antiviral innate immune response. *Cell reports*, 43(8), 114608.

Wang J, et al. (2024) LILRB1-HLA-G axis defines a checkpoint driving natural killer cell exhaustion in tuberculosis. *EMBO molecular medicine*, 16(8), 1755.

Kulkarni A, et al. (2024) Identification of resistance mechanisms to small-molecule inhibition of TEAD-regulated transcription. *EMBO reports*, 25(9), 3944.

Zheng H, et al. (2024) PDGFR⁺/ITGA11⁺ fibroblasts foster early-stage cancer lymphovascular invasion and lymphatic metastasis via ITGA11-SELE interplay. *Cancer cell*.

Sadeghi M, et al. (2024) Biased signaling by mutant EGFR underlies dependence on PKC γ in lung adenocarcinoma. *Cell reports*, 43(12), 115026.

Caldi Gomes L, et al. (2024) Multiomic ALS signatures highlight subclusters and sex differences suggesting the MAPK pathway as therapeutic target. *Nature communications*, 15(1), 4893.

Qin X, et al. (2023) An oncogenic phenoscape of colonic stem cell polarization. *Cell*, 186(25), 5554.

Ramos Zapatero M, et al. (2023) Trellis tree-based analysis reveals stromal regulation of patient-derived organoid drug responses. *Cell*, 186(25), 5606.

Lockhart JH, et al. (2023) Grading of lung adenocarcinomas with simultaneous segmentation by artificial intelligence (GLASS-AI). *NPJ precision oncology*, 7(1), 68.

Gao X, et al. (2023) Deletion of the tyrosine phosphatase Shp2 in cervical cancer cells promotes reprogramming of glutamine metabolism. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 37(4), e22880.

Song Z, et al. (2023) Targeting of Annexin A1 in Tumor-associated Macrophages as a therapeutic strategy for hepatocellular carcinoma. *Biochemical pharmacology*, 213, 115612.

Choi YS, et al. (2022) Topical therapy for regression and melanoma prevention of congenital giant nevi. *Cell*, 185(12), 2071.

Tognetti M, et al. (2021) Deciphering the signaling network of breast cancer improves drug sensitivity prediction. *Cell systems*, 12(5), 401.

Klomp JE, et al. (2021) CHK1 protects oncogenic KRAS-expressing cells from DNA damage and is a target for pancreatic cancer treatment. *Cell reports*, 37(9), 110060.

Tulpule A, et al. (2021) Kinase-mediated RAS signaling via membraneless cytoplasmic protein granules. *Cell*, 184(10), 2649.

Jiang M, et al. (2021) VEGF receptor 2 (KDR) protects airways from mucus metaplasia through a Sox9-dependent pathway. *Developmental cell*, 56(11), 1646.