

Resource Summary Report

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Monoclonal Anti-MAP Kinase, Activated (Diphosphorylated ERK-1&2) antibody produced in mouse

RRID:AB_477245

Type: Antibody

Proper Citation

Sigma-Aldrich Cat# M8159, RRID:AB_477245

Antibody Information

URL: http://antibodyregistry.org/AB_477245

Proper Citation: Sigma-Aldrich Cat# M8159, RRID:AB_477245

Target Antigen: MAP Kinase Activated (Diphosphorylated ERK-1&2) antibody produced in mouse

Host Organism: mouse

Clonality: monoclonal

Comments: Vendor recommendations: IgG1 ELISA; Immunohistochemistry; Immunoprecipitation; Western Blot; Immunocytochemistry; immunoblotting: 1:10,000

Antibody Name: Monoclonal Anti-MAP Kinase, Activated (Diphosphorylated ERK-1&2) antibody produced in mouse

Description: This monoclonal targets MAP Kinase Activated (Diphosphorylated ERK-1&2) antibody produced in mouse

Target Organism: rat, hamster, xenopus, c. elegans/worm, yeast/fungi, caenorhabditis elegans, yeast, mouse, drosophila, drosophila/arthropod, bovine, xenopus/amphibian, human

Defining Citation: [PMID:18666124](#)

Antibody ID: AB_477245

Vendor: Sigma-Aldrich

Catalog Number: M8159

Record Creation Time: 20231110T080855+0000

Record Last Update: 20260829T214144+0000

Ratings and Alerts

No rating or validation information has been found for Monoclonal Anti-MAP Kinase, Activated (Diphosphorylated ERK-1&2) antibody produced in mouse.

No alerts have been found for Monoclonal Anti-MAP Kinase, Activated (Diphosphorylated ERK-1&2) antibody produced in mouse.

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Darash-Yahana M, et al. (2026) Erk inhibitors intercept Erk-mediated negative feedback while imposing cell-cycle arrest and activating p38. *iScience*, 29(7), 116629.

Zhang X, et al. (2026) Human pancreatic progenitor organoids define genetic and epigenetic barriers to early PDAC transformation. *Developmental cell*, 61(6), 1190.

Jones L, et al. (2026) A structure-based modeling approach identifies effective drug combinations for RAS-mutant acute myeloid leukemia. *iScience*, 29(8), 116875.

Köhler I, et al. (2025) Activation of GluN2D-containing NMDA receptors promotes development of axons and axon-carrying dendrites of cortical interneurons. *Cerebral cortex (New York, N.Y. : 1991)*, 35(6).

Baek HB, et al. (2025) ERK activation dynamics in maturing oocyte controls embryonic nuclear divisions in *Caenorhabditis elegans*. *Cell reports*, 44(1), 115157.

de la Fuente-Vivas D, et al. (2025) ERK1/2 mitogen-activated protein kinase dimerization is essential for the regulation of cell motility. *Molecular oncology*, 19(2), 452.

Scarcella M, et al. (2024) Metabolic rewiring and autophagy inhibition correct lysosomal storage disease in mucopolysaccharidosis IIIB. *iScience*, 27(3), 108959.

Bongiovanni C, et al. (2024) BMP7 promotes cardiomyocyte regeneration in zebrafish and adult mice. *Cell reports*, 43(5), 114162.

Wilcockson SG, et al. (2023) An improved Erk biosensor detects oscillatory Erk dynamics driven by mitotic erasure during early development. *Developmental cell*, 58(23), 2802.

Liu Z, et al. (2023) Kinase Suppressor of RAS 1 (KSR1) Maintains the Transformed Phenotype of BRAFV600E Mutant Human Melanoma Cells. *International journal of molecular sciences*, 24(14).

Ormsby TJR, et al. (2023) Glucocorticoids increase tissue cell protection against pore-forming toxins from pathogenic bacteria. *Communications biology*, 6(1), 186.

Quintero M, et al. (2023) Disruptions in cell fate decisions and transformed enteroendocrine cells drive intestinal tumorigenesis in *Drosophila*. *Cell reports*, 42(11), 113370.

Li J, et al. (2023) Peroxisomal ERK mediates Akh/glucagon action and glycemic control. *Cell reports*, 42(10), 113200.

Martín-Vega A, et al. (2023) Scaffold coupling: ERK activation by trans-phosphorylation across different scaffold protein species. *Science advances*, 9(7), eadd7969.

Sun R, et al. (2023) ROTACs leverage signaling-incompetent R-spondin for targeted protein degradation. *Cell chemical biology*, 30(7), 739.

Houston DW, et al. (2022) Maternal Wnt11b regulates cortical rotation during *Xenopus* axis formation: analysis of maternal-effect wnt11b mutants. *Development (Cambridge, England)*, 149(17).

Byts N, et al. (2022) Inactivation of mouse transmembrane prolyl 4-hydroxylase increases blood brain barrier permeability and ischemia-induced cerebral neuroinflammation. *The Journal of biological chemistry*, 298(3), 101721.

Ormsby TJR, et al. (2022) Oxysterols Protect Epithelial Cells Against Pore-Forming Toxins. *Frontiers in immunology*, 13, 815775.

Siriwach R, et al. (2022) Single-cell RNA sequencing identifies a migratory keratinocyte subpopulation expressing THBS1 in epidermal wound healing. *iScience*, 25(4), 104130.

Grinat J, et al. (2022) Epigenetic modifier balances Mapk and Wnt signalling in differentiation of goblet and Paneth cells. *Life science alliance*, 5(4).