

# Resource Summary Report

Generated by NIF on Jul 29, 2026

## OPN (AKm2A1)

RRID:AB\_2194997

Type: Antibody

### Proper Citation

Santa Cruz Biotechnology Cat# sc-21742, RRID:AB\_2194997

### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_2194997](http://antibodyregistry.org/AB_2194997)

**Proper Citation:** Santa Cruz Biotechnology Cat# sc-21742, RRID:AB\_2194997

**Target Antigen:** OPN (AKm2A1)

**Host Organism:** mouse

**Clonality:** monoclonal

**Comments:** validation status unknown check with seller; recommendations: Immunohistochemistry; Immunocytochemistry; Immunofluorescence; Western Blot; WB, IP, IF, IHC(P); Immunoprecipitation

**Antibody Name:** OPN (AKm2A1)

**Description:** This monoclonal targets OPN (AKm2A1)

**Target Organism:** rat, mouse, human

**Antibody ID:** AB\_2194997

**Vendor:** Santa Cruz Biotechnology

**Catalog Number:** sc-21742

**Record Creation Time:** 20250819T224837+0000

**Record Last Update:** 20250820T032225+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 OPN (AKm2A1).

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## Data and Source Information

**Source:** [Antibody Registry](#)

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## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Farooq H, et al. (2024) Molecular imaging in experimental pulmonary fibrosis reveals that nintedanib unexpectedly modulates CCR2 immune cell infiltration. EBioMedicine, 110, 105431.

Bessa-Andr s C, et al. (2024) Mechanical stimulation-induced purinome priming fosters osteogenic differentiation and osteointegration of mesenchymal stem cells from the bone marrow of post-menopausal women. Stem cell research & therapy, 15(1), 168.

Forte YS, et al. (2024) Unlocking the Secrets of Adipose Tissue: How an Obesity-Associated Secretome Promotes Osteoblast Dedifferentiation via TGF- 1 Signaling, Paving the Path to an Adipogenic Phenotype. Cells, 13(17).

Lien CF, et al. (2023) Peroxisome proliferator-activated receptor   improves the features of atherosclerotic plaque vulnerability by regulating smooth muscle cell phenotypic switching. British journal of pharmacology, 180(16), 2085.

Hsiao CC, et al. (2023) Osteopontin associates with brain TRM-cell transcriptome and compartmentalization in donors with and without multiple sclerosis. iScience, 26(1), 105785.

Wang H, et al. (2023) Antiandrogen treatment induces stromal cell reprogramming to promote castration resistance in prostate cancer. Cancer cell, 41(7), 1345.

Kato J, et al. (2021) Time- and area-dependent macrophage/microglial responses after focal infarction of the macaque internal capsule. Neuroscience research, 170, 350.

Stone JS, et al. (2021) The transcription factor Sox2 is required to maintain the cell type-specific properties and innervation of type II vestibular hair cells in adult mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(29), 6217.

Ayhan S, et al. (2021) Characterization of human bone marrow niches with metabolome and transcriptome profiling. Journal of cell science, 134(6).

Lyu Q, et al. (2020) RNA-Seq Reveals Sub-Zones in Mouse Adrenal Zona Fasciculata and the Sexually Dimorphic Responses to Thyroid Hormone. *Endocrinology*, 161(9).