

Osteopontin Polyclonal Antibody

Product Details

Size	25 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant, full length mouse protein, expressed in NSO cells.
Form	Liquid
Concentration	0.1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 5% trehalose
Contains	no preservative
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_795087

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.2 µg/mL	-
Immunohistochemistry (IHC)	5-15 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
ELISA (ELISA)	0.2-0.8 µg/mL	-
Neutralization (Neu)	1-3 µg/mL	-
Inhibition Assays (IA)	1-3 µg/mL	-

Product Specific Information

By Western Blot, a doublet band of approximately 65 kDa and a band of 30 kDa is observed due to glycosylation. A suggested positive control is 293 cells. The Neutralization Dose50 (ND50) for anti-mouse osteopontin is approximately 1 to 3 µg/mL in the presence of 2 µg/mL of recombinant mouse osteopontin using 293 cells.

Immunohistochemistry (3)

<p>Nature communications</p> <p>Macrophages in epididymal adipose tissue secrete osteopontin to regulate bone homeostasis.</p> <p>"PA1-25152 was used in Immunohistochemistry to show that epididymal white adipose tissue-secreted osteopontin induces lipophagocytic mobilization of bone marrow-derived macrophages (BMDMs) to a lipid-rich pool in the bone marrow, promotes bone matrix degradation by activating osteoclasts in high-fat diet-fed mice, and blocks both lipolysis and osteoclastogenesis in BMDMs by limiting the energy regeneration by ATP6V0d2 in lysosomes."</p> <p>Authors: Dai B,Xu J,Li X,Huang L,Hopkins C,Wang H,Yao H,Mi J,Zheng L,Wang J,Tong W,Chow DH,Li Y,He X,Hu P, Chen Z,Zu H,Li Y,Yao Y,Jiang Q,Qin L</p>	<p>Year 2022</p> <p>Species Mouse</p>
<p>Journal of neuroinflammation</p> <p>Transcriptome profiling of brain myeloid cells revealed activation of Itgal, Trem1, and Spp1 in western diet-induced obesity.</p> <p>"PA1-25152 was used in Immunohistochemistry-immunofluorescence to support the model that peripheral myeloid cells enter the brain in response to diet-induced obesity."</p> <p>Authors: Yang H,Graham LC,Reagan AM,Grabowska WA,Schott WH,Howell GR</p>	<p>Year 2019</p> <p>Species Mouse</p> <p>Dilution 1:100</p>

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Immunocytochemistry (1)

<p>Oncotarget</p> <p>The C-terminal domain of connexin43 modulates cartilage structure via chondrocyte phenotypic changes.</p> <p>"PA125152 was used in immunocytochemistry to examine chondrocyte from mice deficient in the carboxy terminal domain of connexin 43"</p> <p>Authors: Gago-Fuentes R,Bechberger JF,Varela-Eirin M,Varela-Vazquez A,Acea B,Fonseca E,Naus CC,Mayan MD</p>	<p>Year 2016</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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