

Human/Mouse/Rat PBEF/Visfatin Antibody

Monoclonal Mouse IgG₁ Clone # 882104

Catalog Number: MAB40441

DESCRIPTION		
Species Reactivity	Human/Mouse/Rat	
Specificity	Detects human PBEF/Visfatin in direct ELISAs and Western blots.	
Source	Monoclonal Mouse IgG ₁ Clone # 882104	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human PBEF/Visfatin Pro27-His491 Accession # P43790	
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.	

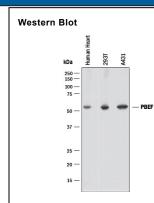
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5-1 μg/mL	See Below
Simple Western	5-50 µg/mL	See Below

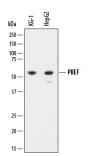
Western Blot 250 37

Detection of Human, Mouse, and Rat PBEF/Visfatin by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line, RAW 264.7 mouse monocyte/ macrophage cell line, Neuro-2A mouse neuroblastoma cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human/Mouse/Rat PBEF/ Visfatin Monoclonal Antibody (Catalog # MAB40441) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PBEF/Visfatin at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.



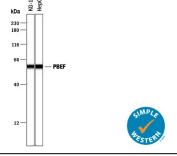
Detection of Human PBEF/Visfatin by Western Blot. Western blot shows lysates of human heart tissue, 293T human embryonic kidney cell line, and A431 human epithelial carcinoma cell line. PVDF membrane was probed with 1 ug/mL of Mouse Anti-Human/ Mouse/Rat PBEF/Visfatin Monoclonal Antibody (Catalog # MAB40441) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PBEF/Visfatin at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Western Blot



Detection of Human PBEF/Visfatin by Western Blot. Western blot shows lysates of KG-1 human acute myelogenous leukemia cell line and HepG2 human hepatocellular carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/ Mouse/Rat PBEF/Visfatin Monoclonal Antibody (Catalog # MAB40441) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PBEF/Visfatin at approximately 52 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.





Detection of Human PBEF/Visfatin by Simple WesternTM. Simple Western lane view shows lysates of KG-1 human acute myelogenous leukemia cell line and HepG2 human hepatocellular carcinoma cell line, loaded at 0.5 mg/mL. A specific band was detected for PBEF/Visfatin at approximately 58 kDa (as indicated) using 50 µg/mL of Mouse Anti-Human/Mouse/Rat PBEF/ Visfatin Monoclonal Antibody (Catalog # MAB40441). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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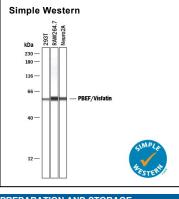




Human/Mouse/Rat PBEF/Visfatin Antibody

Monoclonal Mouse IgG₁ Clone # 882104

Catalog Number: MAB40441



Detection of Human and Mouse PBEF/Visfatin by Simple WesternTM. Simple Western lane view shows lysates of HEK293T human embryonic kidney cell line, RAW 264.7 mouse monocyte/macrophage cell line, and Neuro-2A mouse neuroblastoma cell line, loaded at 0.2 mg/mL. A specific band was detected for PBEF/Visfatin at approximately 58 kDa (as indicated) using 5 µg/mL of Mouse Anti-Human/Mouse/Rat PBEF/Visfatin Monoclonal Antibody (Catalog # MAB40441) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution

Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

PBEF (pre-B cell colony-enhancing factor), also known as visfatin and nicotinamide phosphoribosyltransferase, is an approximately 52 kDa member of the NAPRTase family of molecules. It functions both intracellularly and extracellularly, where it participates in NAD synthesis and insulin receptor activation, respectively. Human PBEF is 491 amino acids in length and contains no signal sequence. There is at least one alternative splice form that shows a 5 aa substitution for the C-terminal 128 amino acids (aa 364-491). Over aa 27-491, human PBEF shares 96%, 97%, and 96% aa identity with mouse, porcine, and canine PBEF, respectively

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