

DESCRIPTION

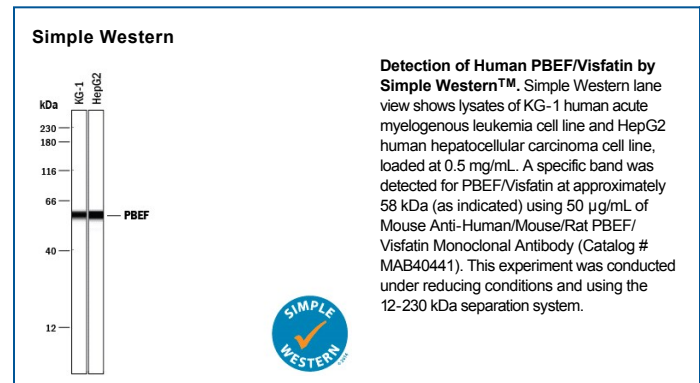
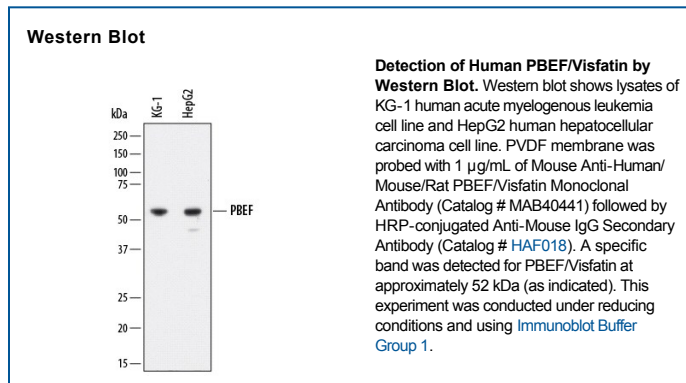
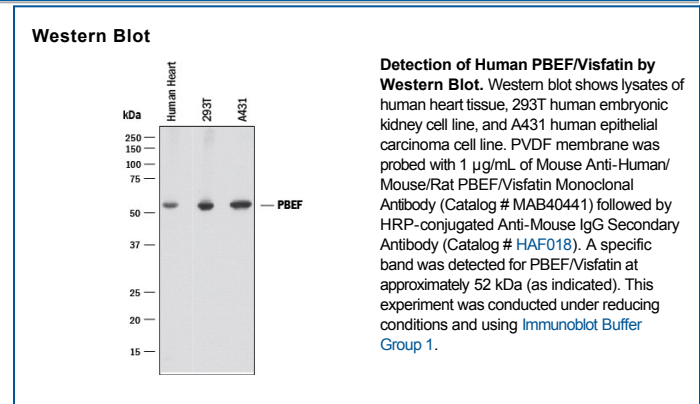
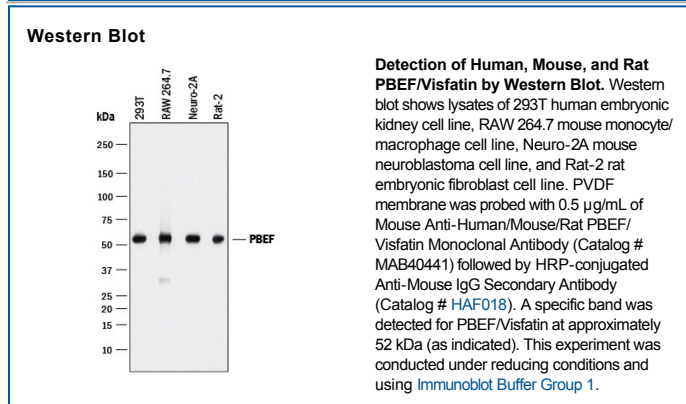
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human PBEF/Visfatin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 882104
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PBEF/Visfatin Pro27-His491 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 as a 0.2 µm filtered solution in PBS.

APPLICATIONS

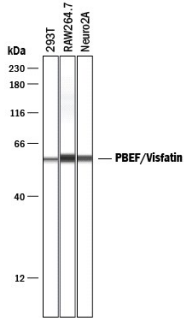
Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

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

DATA



Simple Western



Detection of Human and Mouse PBEF/Visfatin by Simple Western™.

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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.