

DESCRIPTION

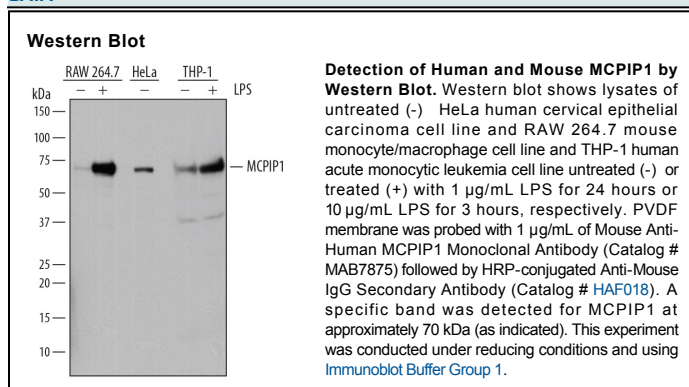
Species Reactivity	Human/Mouse
Specificity	Detects human MCPIP1 in direct ELISAs and human and mouse MCPIP1 in Western blots. In direct ELISAs, no cross-reactivity with recombinant human MCPIP3 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 604421
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human MCPIP1 Asp426-Glu599 Accession # Q5D1E8
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	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <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

Human MCP-induced protein (MCPIP), also known as ZC3H12A, is an approximately 66 kDa intracellular protein that contains one RNase domain (aa 134-290), one zinc finger (aa 301-324), and a proline-rich region (aa 458-536). Within aa 426-599, human MCPIP shares approximately 79% aa sequence identity with mouse and rat MCPIP. Its expression is induced by inflammatory stimulation and cellular stress. It acts to dampen inflammatory responses by promoting the degradation of proinflammatory cytokine mRNAs, inhibiting NFκB activation, and antagonizing TLR signaling. MCPIP exhibits deubiquitinase activity and inhibits the biogenesis of miRNA. It also enhances inflammation-induced angiogenesis, osteocyte and adipocyte differentiation, and the cell death of cardiac myocytes.