

DESCRIPTION

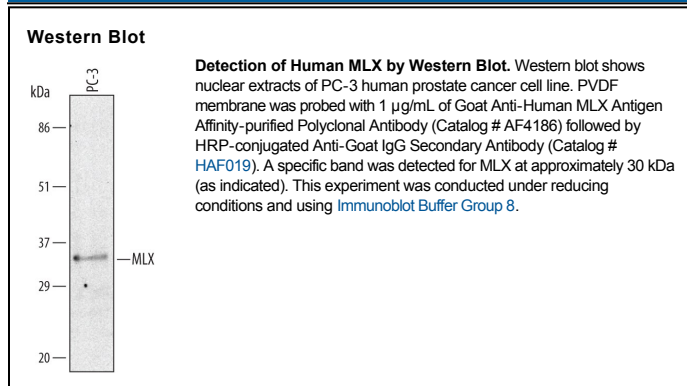
Species Reactivity	Human
Specificity	Detects human MLX in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human MLX Glu197-Tyr298 Accession # EAW60842
Formulation	Lyophilized from a 0.2 µm filtered solution 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
Immunocytochemistry	5-15 µg/mL	Immersion fixed W138 human embryonic lung fibroblast cell line

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. <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

MLX (Max-like protein X; also known as transcription factor-like protein 4) is a 30 kDa member of the Max-like bHLHZip family of proteins. It is widely expressed and is found in both cytoplasm and nucleus. MLX is a transcriptional repressor when dimerized with MAD family members and a transcriptional activator when dimerized with MONDO family members. Human MLX is 298 amino acids (aa) in length. It contains one DNA-binding region (aa 76-87), an HLH domain (aa 127-192) and a Leu-zipper domain (aa 140-160). There are three alternate splice short forms. One shows the deletion of aa 15-68, a second shows deletion of aa 15-68 and 81-110, and a third shows a 3 aa substitution for aa 111-298. Over aa 197-298, human MLX is 99% identical to mouse and canine MLX.