

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                  |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human MLX in direct ELISAs and Western blots.                                  |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Goat IgG                                                                    |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                              |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human MLX<br>Glu197-Tyr298<br>Accession # EAW60842 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm        |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                           |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                        |

## 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## 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.

## PRODUCT SPECIFIC NOTICES

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