

## DESCRIPTION

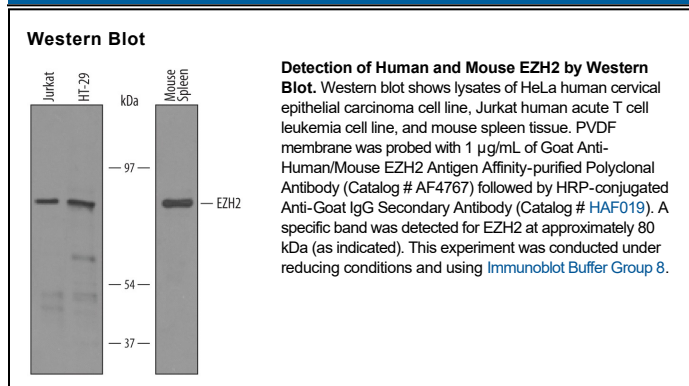
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse EZH2 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human EZH2 Gly512-Ile645 Accession # Q15910
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunocytochemistry</b>	5-15 µg/mL	Immersion fixed HL-60 human acute promyelocytic leukemia cell line

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

EZH2 (Enhancer of zeste homolog 2; also ENX-1 and Lys N-methyltransferase 6) is an 80 kDa member of the EZ family of chromatin-dependent gene regulators. It is a nuclear protein that represses gene transcription through histone methylation. Human EZH2 is 746 amino acids (aa) in length. It contains an NLS (aa 490-495), a Cys-rich region, and a methyltransferase SET (Suppressor/Enhancer/Trithorax) domain (aa 606-729). There are four potential splice variants. One shows a premature truncation after Cys286, a second shows a 6 aa substitution for aa 329-746, a third shows a deletion of aa 83-121, and the fourth exhibits a 5 aa insertion after His297. Over aa 512-645, human, mouse and canine EZH2 are identical in amino acid sequence.