

DESCRIPTION

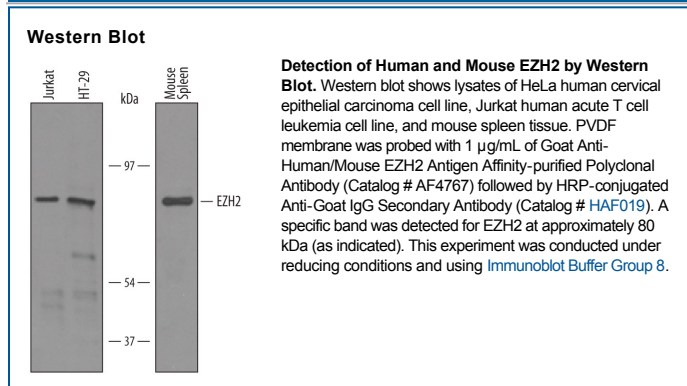
| | |
|---------------------------|---|
| Species Reactivity | Human/Mouse |
| Specificity | Detects human and mouse EZH2 in direct ELISAs and Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human EZH2 Gly512-Ile645 Accession # Q15910 |
| 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 HL-60 human acute promyelocytic leukemia 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

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.