

Human/Mouse EZH2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF4767

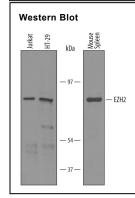
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human and mouse EZH2 in direct ELISAs and Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	<i>E. coli</i> -derived recombinant human EZH2 Gly512-Ile645 Accession # Q15910		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	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



Detection of Human and Mouse EZH2 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, Jurkat human acute T cell leukemia cell line, and mouse spleen tissue. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse EZH2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4767) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for EZH2 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

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

- 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.

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