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Goat Anti-EZH1 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1388a

Specification

Goat Anti-EZH1 Antibody - Product Information

Application	**WB**
Primary Accession	Q92800
Other Accession	NP_001982, 2145, 14055 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**85271**

Goat Anti-EZH1 Antibody - Additional Information

Gene ID 2145

Other Names
Histone-lysine N-methyltransferase EZH1, 2.1.1.43, ENX-2, Enhancer of zeste homolog 1, EZH1, KIAA0388

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-EZH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-EZH1 Antibody - Protein Information

Name EZH1

Synonyms KIAA0388

Function
Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH1 complex, which methylates 'Lys-27' of histone H3, leading to transcriptional repression of the affected target gene. Able to mono-, di- and trimethylate 'Lys-27' of histone H3 to form H3K27me1, H3K27me2 and H3K27me3,

respectively. Required for embryonic stem cell derivation and self-renewal, suggesting that it is involved in safeguarding embryonic stem cell identity. Compared to EZH2-containing complexes, it is less abundant in embryonic stem cells, has weak methyltransferase activity and plays a less critical role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation.

Cellular Location
Nucleus. Note=Colocalizes with trimethylated 'Lys-27' of histone H3

Goat Anti-EZH1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-EZH1 Antibody - Images



AF1388a (2 µg/ml) staining of lysate of cell line MOLT4 (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-EZH1 Antibody - Background

EZH1 is a component of a noncanonical Polycomb repressive complex-2 (PRC2) that mediates methylation of histone H3 (see MIM 602812) lys27 (H3K27) and functions in the maintenance of embryonic stem cell pluripotency and plasticity (Shen et al., 2008 [PubMed 19026780]).

Goat Anti-EZH1 Antibody - References

Ezh1 and Ezh2 maintain repressive chromatin through different mechanisms. Margueron R, et al. Mol Cell, 2008 Nov 21. PMID 19026781.

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