ARG55271
anti-EZH1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes EZH1
Tested Reactivity	Hu, Ms
Predict Reactivity	Rat
Tested Application	IHC-P, WB
Specificity	Multiple isoforms of EZH1 are known to exist. EZH1 antibody is predicted to not cross-react with EZH2
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	EZH1
Species	Human
Immunogen	Synthetic peptide (18 aa) within aa. 180-230 of Human EZH1.
Conjugation	Un-conjugated
Alternate Names	Enhancer of zeste homolog 1; ENX-2; EC 2.1.1.43; KMT6B; Histone-lysine N-methyltransferase EZH1

Application Instructions

Application table

Application	Dilution
IHC-P	5 µg/ml
WB	1 - 2 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse Lung Tissue Lysate

Properties

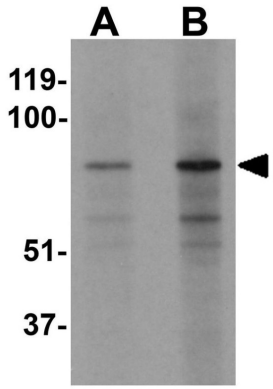
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

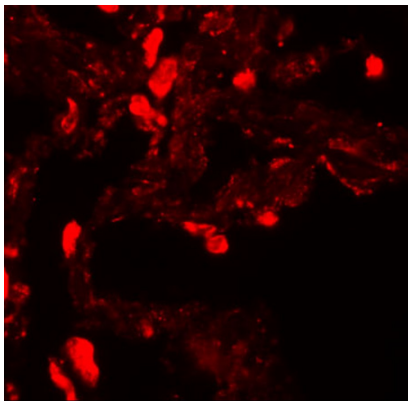
Database links	GeneID: 14055 Mouse GeneID: 2145 Human Swiss-port # P70351 Mouse Swiss-port # Q92800 Human
Gene Symbol	EZH1
Gene Full Name	enhancer of zeste 1 polycomb repressive complex 2 subunit
Background	EZH1 is a component of a noncanonical Polycomb repressive complex-2 (PRC2) that mediates methylation 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]).[supplied by OMIM, Mar 2009]
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. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	85 kDa

Images



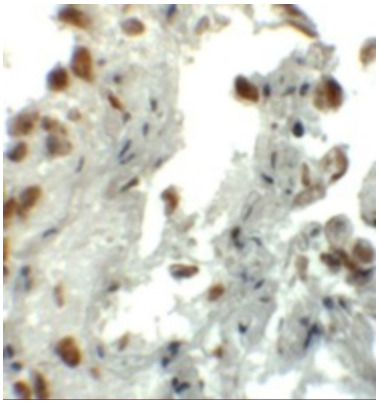
ARG55271 anti-EZH1 antibody WB image

Western blot: Mouse lung tissue lysate stained with ARG55271 anti-EZH1 antibody at (A) 1 and (B) 2 µg/ml dilution.



ARG55271 anti-EZH1 antibody IHC image

Immunohistochemistry: Human lung tissue stained with ARG55271 anti-EZH1 antibody at 20 µg/ml dilution.



ARG55271 anti-EZH1 antibody IHC-P image

Immunohistochemistry: Human lung tissue stained with ARG55271 anti-EZH1 antibody at 5 µg/ml dilution.