Best Tools for immunology Research

# ENX-2 Polyclonal Antibody

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| **Catalog No :** | YT1563 |
| **Reactivity :** | Human;Mouse;Monkey |
| **Applications :** | WB;IHC;IF;ELISA |
| **Target :** | ENX-2 |
| **Fields :** | >>Lysine degradation;>>Metabolic pathways |
| **Gene Name :** | EZH1 |
| **Protein Name :** | Histone-lysine N-methyltransferase EZH1 |
| **Human Gene Id :** | 2145 |
| **Human Swiss Prot No :** | Q92800 |
| **Mouse Gene Id :** | 14055 |
| **Mouse Swiss Prot No :** | P70351 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human EZH1. AA range:171-220 |
| **Specificity :** | ENX-2 Polyclonal Antibody detects endogenous levels of ENX-2 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications. |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 85kD

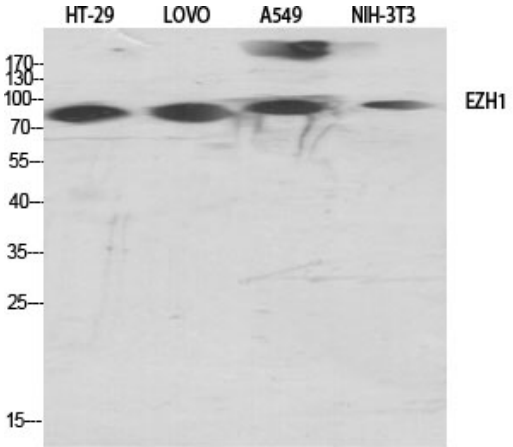
**Background :** enhancer of zeste 1 polycomb repressive complex 2 subunit(EZH1) Homo sapiens EZH1 is a component of a noncanonical Polycomb repressive complex-2 (PRC2) that mediates methylation of histone H3 (see MIM 602812) lys27 (H3K27) and functions in the maintenance of embryonic stem cell pluripotency and plasticity (Shen et al., 2008 [PubMed 19026780]).[supplied by OMIM, Mar 2009],

**Function :** catalytic activity:S-adenosyl-L-methionine + histone L-lysine = S-adenosyl-L-homocysteine + histone N(6)-methyl-L-lysine.,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 EZH1-containing complexes, it is less abundant in embryonic stem cells and plays a less critical role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation.,similarity:Belongs to the histone-lysine methyltransferase family. EZ subfamily.,similarity:Contains 1 SET domain.,s

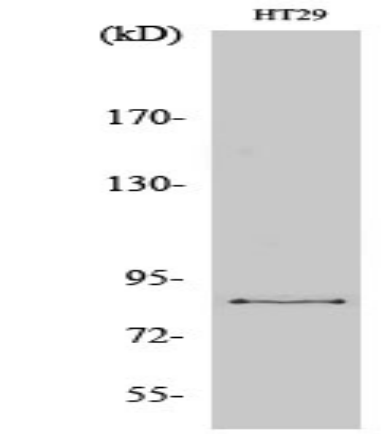
**Subcellular Location :** Nucleus . Colocalizes with trimethylated 'Lys-27' of histone H3.

**Expression :** Brain,Hippocampus,Uterus,

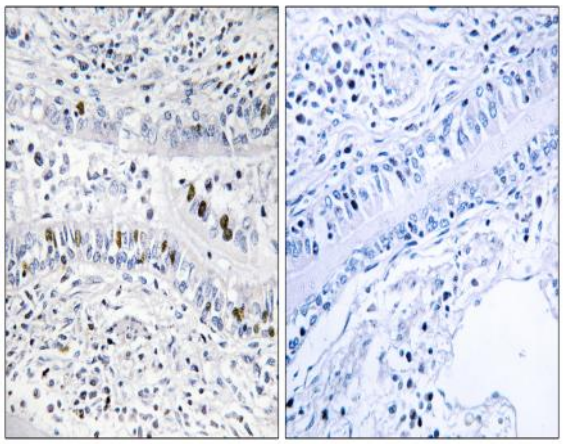
## Products Images



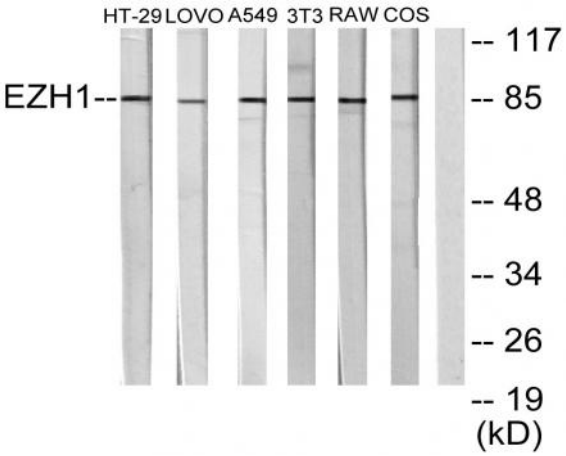

Western Blot analysis of various cells using ENX-2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).




Western Blot analysis of COS7 cells using ENX-2 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using EZH1 Antibody. The picture on the right is blocked with the synthesized peptide.




Western blot analysis of lysates from HT-29, LOVO, A549, NIH/3T3, RAW264.7, and COS7 cells, using EZH1 Antibody. The lane on the right is blocked with the synthesized peptide.