

Product datasheet for **TA350105**

KDM4D Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 2000-5000, WB: 500-2000, IHC: 50-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human KDM4D
Formulation:	pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	59 kDa
Gene Name:	lysine demethylase 4D
Database Link:	NP_060509 Entrez Gene 55693 Human Q6B0I6

Background: JMJD2D (Jumonji domain-containing protein 2D), also known as JHDM3D or KDM4D, is a 520 amino acid protein that belongs to the JHDM3 histone demethylase family. Localized to the nucleus, JMJD2D functions as a histone demethylase that removes specific methyl residues from Histone H3, thereby playing a crucial role in the histone code. JMJD2D binds iron as a cofactor and contains one JMJC domain and one JMJD domain, both of which are thought to exhibit enzymatic activity during chromatin remodeling events. In addition, JMJD2D forms a complex with the ligand-bound form of the androgen receptor (AR) and, through this interaction, activates AR expression. Overexpression of AR is associated with prostate cancer, suggesting that, via its ability to upregulate AR, JMJD2D may be involved in carcinogenesis.



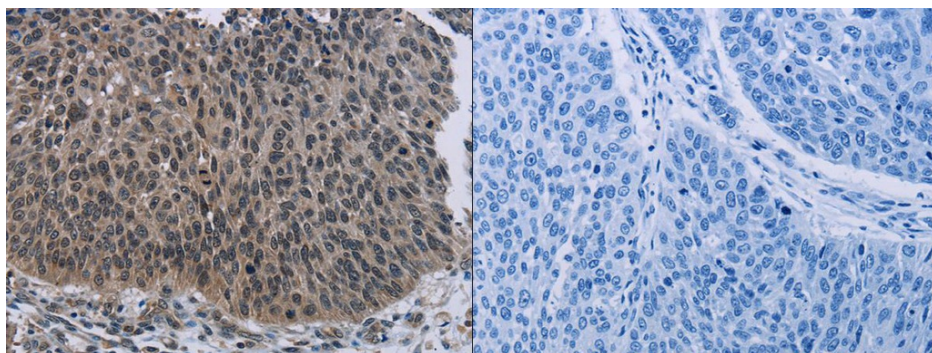
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Synonyms: JMJD2D

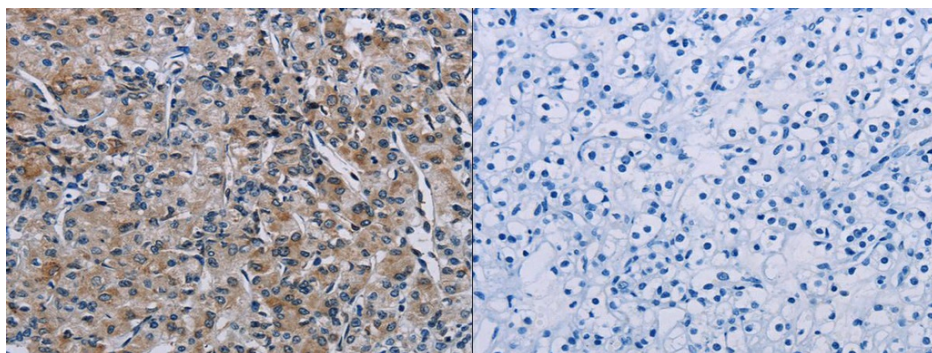
Product images:



Gel: 8%SDS-PAGE, Lysate: 40 ug, Lane: Human fetal brain tissue, Primary antibody: (KDM4D Antibody) at dilution 1/1100, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 10 minutes



The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using (KDM4D Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: $\times 200$)



The image on the left is immunohistochemistry of paraffin-embedded Human prostate cancer tissue using (KDM4D Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification: $\times 200$)