

**ARG54749**  
anti-KMT3A / SETD2 antibodyPackage: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes KMT3A / SETD2
Tested Reactivity	Hu
Predict Reactivity	Ms
Tested Application	IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KMT3A / SETD2
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 21-50 (N-terminus) of Human KMT3A / SETD2 (NP_054878.5).
Conjugation	Un-conjugated
Alternate Names	HIF-1; SET domain-containing protein 2; SET2; Huntingtin-interacting protein B; Huntingtin yeast partner B; KMT3A; Huntingtin-interacting protein 1; hSET2; EC 2.1.1.43; HBP231; Lysine N-methyltransferase 3A; HIP-1; p231HBP; HSPC069; Histone-lysine N-methyltransferase SETD2; HYPB

### Application Instructions

Application table	Application	Dilution
	IHC-P	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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.

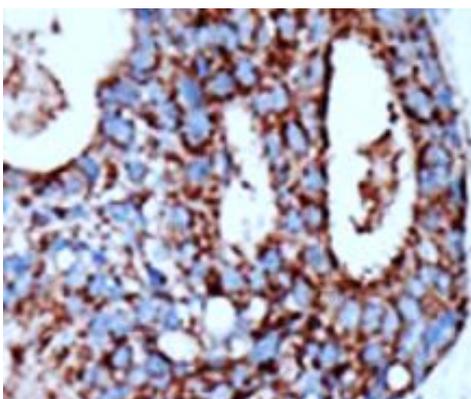
## Bioinformation

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Database links	<a href="#">GeneID: 29072 Human</a> <a href="#">Swiss-port # Q9BYW2 Human</a>
Gene Symbol	SETD2
Gene Full Name	SET domain containing 2
Background	Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein belonging to a class of huntingtin interacting proteins characterized by WW motifs. This protein is a histone methyltransferase that is specific for lysine-36 of histone H3, and methylation of this residue is associated with active chromatin. This protein also contains a novel transcriptional activation domain and has been found associated with hyperphosphorylated RNA polymerase II. [provided by RefSeq, Aug 2008]
Function	Histone methyltransferase that specifically trimethylates 'Lys-36' of histone H3 (H3K36me3) using dimethylated 'Lys-36' (H3K36me2) as substrate. Represents the main enzyme generating H3K36me3, a specific tag for epigenetic transcriptional activation. Plays a role in chromatin structure modulation during elongation by coordinating recruitment of the FACT complex and by interacting with hyperphosphorylated POLR2A. Acts as a key regulator of DNA mismatch repair in G1 and early S phase by generating H3K36me3, a mark required to recruit MSH6 subunit of the MutS alpha complex: early recruitment of the MutS alpha complex to chromatin to be replicated allows a quick identification of mismatch DNA to initiate the mismatch repair reaction. H3K36me3 also plays an essential role in the maintenance of a heterochromatic state, by recruiting DNA methyltransferase DNMT3A. H3K36me3 is also enhanced in intron-containing genes, suggesting that SETD2 recruitment is enhanced by splicing and that splicing is coupled to recruitment of elongating RNA polymerase. Required during angiogenesis. Recruited to the promoters of adenovirus 12 E1A gene in case of infection, possibly leading to regulate its expression. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	288 kDa
PTM	May be automethylated.
Cellular Localization	Nucleus. Chromosome

## Images

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ARG54749 anti-KMT3A / SETD2 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast carcinoma tissue stained with ARG54749 anti-KMT3A / SETD2 antibody.