

Product datasheet for **SM6006**

SETD7 (1-366) Mouse Monoclonal Antibody [Clone ID: s4E5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	s4E5
Applications:	ELISA, FC, IF, IHC, WB
Recommended Dilution:	ELISA. Western blot: 1/500-1/2,000. <i>Recommended Starting Dilution:</i> 1/1,000. Immunohistochemistry on Paraffin Sections: 5 µg/ml after heat induced antigen retrieval in pH 6.0 citrate buffer. Immunocytochemistry / Immunofluorescence. Flow cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human SET7/9 protein (1-366aa) purified from <i>E. coli</i>
Specificity:	The antibody recognizes Human SET7/9. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	SET domain containing lysine methyltransferase 7



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Database Link: [Entrez Gene 80854 Human Q8WTS6](#)

Background: Set7/9 is a histone methyltransferase (HMTase) that transfers methyl group to Lys4 of histone H3, in complex with S-adenosyl-L-methionine (AdoMet). The methylation of lysine residues of histones plays a critical role in the regulation of chromatin structure and gene expression. Acetylation, phosphorylation and methylation of the amino-terminal tails of histone are thought to be involved in the regulation of chromatin structure and function. The enzymes identified in the methylation of specific lysine residue on histones belong to the SET family with just one exception. Set7/9, unlike most other SET proteins, is exclusively a mono-methylase.

Synonyms: SET7, SET7/9, KMT7, KIAA1717

Note: **Predicted Molecular Weight:** 50 kDa.

Product images:

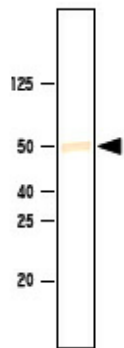


Figure 1. Immunoblot analysis: Recombinant SET7/9 was resolved by electrophoresis, transferred to PVDF membrane and probed with anti-SET7/9 (1/1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a DAP detection system. Arrow indicates SET7/9 (~50 kDa).

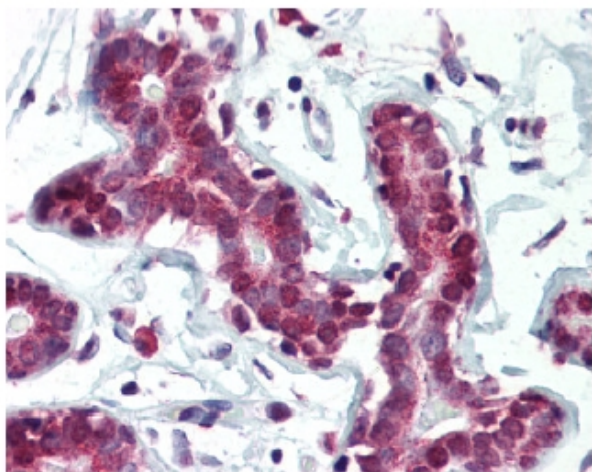


Figure 2. SETD7 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Breast at 5 ug/ml followed by biotinylated anti-Mouse IgG secondary antibody, Alkaline Phosphatase-Streptavidin and chromogen.

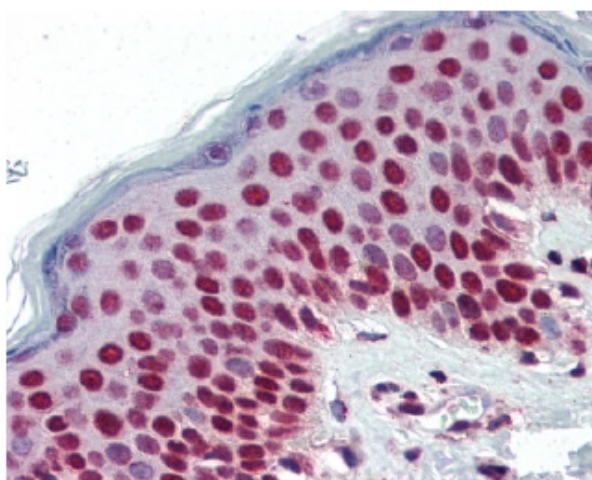


Figure 3. SETD7 antibody staining of Formalin-Fixed, Paraffin-Embedded Human Skin at 5 ug/ml followed by biotinylated anti-Mouse IgG secondary antibody, Alkaline Phosphatase-Streptavidin and chromogen.