

Product datasheet for **AM06178SU-N**

KAT5 Mouse Monoclonal Antibody [Clone ID: 3F9]

Product data:

| | |
|-------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 3F9 |
| Applications: | IHC, WB |
| Recommended Dilution: | ELISA: 1/10000. Western Blotting: 1/500 - 1/2000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2b |
| Clonality: | Monoclonal |
| Immunogen: | Purified recombinant fragment of human TIP60 expressed in E. Coli. |
| Specificity: | Recognizes HTATIP (HIV-1 Tat interacting protein TIP60, about 60kDa). |
| Formulation: | State: Ascites State: Ascitic fluid containing 0.03% Sodium Azide. |
| Conjugation: | Unconjugated |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | 60 kDa |
| Gene Name: | lysine acetyltransferase 5 |
| Database Link: | Entrez Gene 10524 Human Q92993 |



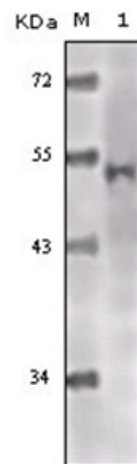
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Background:

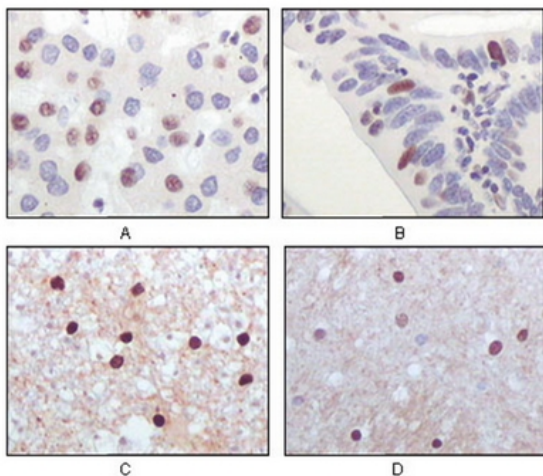
HTATIP (HIV-1 Tat interacting protein TIP60, about 60kDa) belongs to the MYST family of histone acetyl transferases (HATs) and was originally isolated as an HIV-1 TAT-interactive protein. HATs play important roles in regulating chromatin remodeling, transcription and other nuclear processes by acetylating histone and nonhistone proteins. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. In addition to the growing number of post-translational histone modifications regulating chromatin structure, cells can also exchange canonical histones with variant histones that can directly or indirectly modulate chromatin structure. There are five major variants of histone H2A: canonical H2A (most abundant), H2A.X, MacroH2A, H2ABbd and H2A.Z. Histone H2A.Z, the most conserved variant across species, functions as both a positive and negative regulator of transcription and is important for chromosome stability. Several homologous protein complexes, such as SWR-C, TIP60 and SRCAP (mammals), have been shown to catalyze the ATP-dependent exchange of H2A.Z for H2A in the nucleosome. This protein is a histone acetylase that has a role in DNA repair and apoptosis and is thought to play an important role in signal transduction.

Synonyms:

HTATIP, TIP60, PLIP

Product images:

Western blot analysis using Tip60 antibody Cat.-
No AM06178SU-N against truncated Tip60
recombinant protein.



Immunohistochemical analysis of paraffin-embedded human liver carcinoma (A), rectum carcinoma (B), normal medulla tissue (C) and normal interbrain tissues (D), showing nuclear localization using Tip60 antibody Cat.-No AM06178SU-N with DAB staining.