

Rabbit Anti-Histone H3 (tri methyl K4, serotonyl Q5)antibody

SL60081R

Product Application

Application	Inspected Qualified species	Predicted species	Recommended dilution ratio
WB	Human, Mouse, Rat		1:500-2000
ChIP	Human	Mouse, Rat	6 ug/5x10 ⁶ cells

Product Name	Histone H3 (tri methyl K4, serotonyl Q5)
Product Type	Methylated anti
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human Mouse Rat WB=1:500-1:2000
Applications	WB=1:500-2000,ChIP=6 ug/5x10 ⁶ cells not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
Lsotype	IgG
Purification	Antigen affinity purification
Buffer Solution	Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

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Post-translational modification (PTM) of histones is a key mechanism in epigenetics that regulates chromatin structure, known as the "histone code". Serotonin, also called 5-hydroxytryptamine (5-HT), is an excitatory neurotransmitter that can activate specific membrane receptors in the brain to regulate the activity of brain cells. Under the catalysis of the TGM2 protein, the amino group of 5-HT can covalently bind to the side-chain carboxyl group of glutamine at position 5 of histone H3, forming histone 5-hydroxytryptamine (H3Q5ser). H3Q5ser interacts with the adjacent H3K4me3. H3K4me3Q5ser can enhance the binding of transcription factors such as TFIID to chromatin, thereby activating the expression of downstream genes in the developing rodent brain or human neurons.

Product Detail