Goat KMT2B / MLL4 Polyclonal Antibody | anti-KMT2B antibody

Goat Polyclonal to Human KMT2B / MLL4

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50936	**Goat**	**Human, Monkey, Mouse, Rat, Bovine, Pig, ZebrafishPredicted: Xenopus**	**Immunohistochemistry, Immunohistochemistry**

PRODUCT SYNONYMS

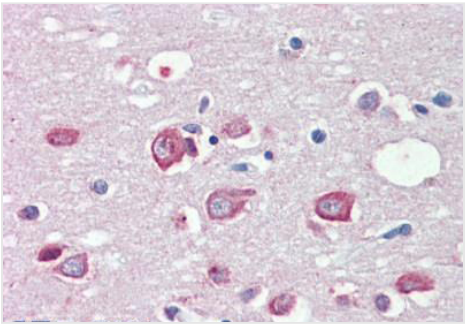
KMT2B / MLL4; Polyclonal Antibody; Goat Polyclonal to Human KMT2B / MLL4; Anti-KMT2B / MLL4 Antibody (C-Terminus) IHC-plus; KMT2B; Lysine N-methyltransferase 2D; MLL4; HRX2; KMT2D; WBP-7; WW domain binding protein 7; Trithorax homologue 2; WBP7; KIAA0304; Lysine N-methyltransferase 2B; Trithorax homolog 2; TRX2; WW domain-binding protein 7; Human KMT2B; anti-KMT2B antibody

PRODUCT SPECIFICATIONS

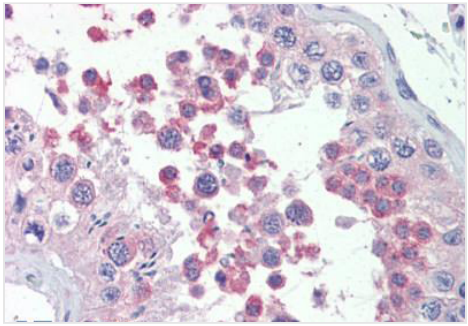
Host	Goat
Reactivity	Human, Monkey, Mouse, Rat, Bovine, Pig, Zebrafish Predicted: Xenopus
Clonality	Polyclonal
Specificity	Human MLL4.
Purity/Purification	Immunoaffinity Purified
Form/Format	Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide
Concentration	0.5 mg/ml (varies by lot)
Sequence Length	2715
Applicable Applications for anti-KMT2B antibody	IHC (Immunohistochemistry), IHC (Immunohistochemistry)
Immunogen Description	Synthetic peptide CNCGAKRCRRFLN from the C-terminus of human MLL4 (NP_055542.1). Percent identity by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Bovine, Pig, Zebrafish (100%); Xenopus, Pufferfish (92%).
Epitope	aa2703-2715
Antigen Type	Synthetic peptide
Immunogen	KMT2B / MLL4 antibody was raised against synthetic peptide CNCGAKRCRRFLN from the C-terminus of human MLL4 (NP_055542.1). Percent identity by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Bovine, Pig, Zebrafish (100%); Xenopus, Pufferfish (92%); Chimpanzee, Elephant, Panda, Dog, Bat, Horse, Opossum, Turkey, Chicken (85%).
Usage Summary	Immunohistochemistry: was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm stainig specifity. The optimal working concentration for was determined to be 5 ug/mL.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: **Tissue Preparation:** Formalin fixation and embedding in paraffin wax. **Tissue Sectioning:** Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. **Deparaffinization:** Wash dry slides in 3 changes of xylene - 5 minutes each @ RT **Rehydration:** Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT **Antigen retrieval:** Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT **Immunostaining:** (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT **Dehydrate:** (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Note	During shipment,small volumes of product will ocassionally become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial to dislodge any liquid in the container's cap prior to opening.
Warning	This reagent may contain sodium azide. The chemical, physical, and toxicologial properties of this material have not been thoughly investigated.Standard Laboratory Practices should be followed. Avoid skin and eye contact,inhalation, and ingestion. Sodium azide forms hydrazoic acid under acidic conditions and may react with lead or copper plubing to form highly explosive metal azides. On disposal, flush with large volumes of water to prevent accumulation
Preparation and Storage	Store at -20°C. Minimize freezing and thawing.

IMAGES



IHC (Immunohiostchemistry)
Anti-MLL4 antibody IHC of human brain, cortex. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



IHC (Immunohistochemistry)
Anti-MLL4 antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-KMT2B antibody	This gene encodes a protein which contains multiple domains including a CXXC zinc finger, three PHD zinc fingers, two FY-rich domains, and a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain. The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. This gene is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7662046
NCBI GeneID	9757
NCBI Accession #	NP_055542.1
NCBI GenBank Nucleotide #	NM_014727.2
UniProt Accession #	Q9UMN6; O15022; O95836; Q96GP2; Q96IP3; Q9UK25; Q9Y668; Q9Y669
NCBI Official Full Name	histone-lysine N-methyltransferase 2B
NCBI Official Synonym Full Names	lysine (K)-specific methyltransferase 2B
NCBI Official Symbol	KMT2B
NCBI Official Synonym Symbols	HRX2; MLL2; MLL4; TRX2; WBP7; MLL1B; WBP-7
NCBI Protein Information	histone-lysine N-methyltransferase 2B; trithorax homologue 2; WW domain binding protein 7; mixed lineage leukemia gene homolog 2; histone-lysine N-methyltransferase MLL4; myeloid/lymphoid or mixed-lineage leukemia protein 4; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) 4
UniProt Protein Name	Histone-lysine N-methyltransferase 2B
UniProt Gene Name	**KMT2B**
UniProt Synonym Gene Names	HRX2; KIAA0304; MLL2; MLL4; TRX2; WBP7; Lysine N-methyltransferase 2B; WBP-7
UniProt Entry Name	KMT2B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/kmt2b-mll4-antibody-immunohistochemistry-immunohistochemistry-elisa/50936