

Product datasheet

Anti-KMT3B / NSD1 antibody ab222145

1 Image

Overview

Product name	Anti-KMT3B / NSD1 antibody
Description	Rabbit polyclonal to KMT3B / NSD1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
Immunogen	Recombinant fragment corresponding to Human KMT3B/ NSD1 aa 806-936. Sequence: INEECSLKCCSSDTKGSPLASISKSGKVDGLKLLNNMH EKTRDSSDIETA VVKHVLSELKELSYRSLGEDVSDSGTSKPSKPLLFSS ASSQNHIEPDY KFSTLLMMLKDMHDSKTKEQRLMTAQNLSY Database link: Q96L73  Run BLAST with  Run BLAST with
Positive control	ICC/IF: HEK293 (human epithelial cell line from embryonic kidney) cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

Our [Abpromise guarantee](#) covers the use of **ab222145** in the following tested applications.

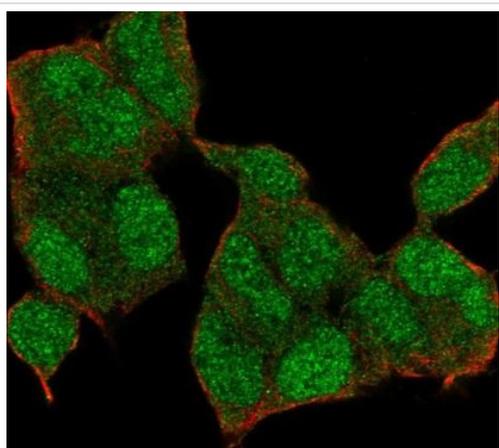
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 - 4 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

Target

Function	Histone methyltransferase. Preferentially methylates 'Lys-36' of histone H3 and 'Lys-20' of histone H4 (in vitro). Transcriptional intermediary factor capable of both negatively or positively influencing transcription, depending on the cellular context.
Tissue specificity	Expressed in the fetal/adult brain, kidney, skeletal muscle, spleen, and the thymus, and faintly in the lung.
Involvement in disease	<p>Defects in NSD1 are the cause of Sotos syndrome (SOTOSS) [MIM:117550]; also known as cerebral gigantism. It is a disorder characterized by excessively rapid growth, acromegalic features, and a nonprogressive cerebral disorder with mental retardation. High-arched palate and prominent jaw are noted in several patients. Most cases of Sotos syndrome are sporadic and may represent new dominant mutation.</p> <p>Defects in NSD1 are the cause of Weaver syndrome (WES) [MIM:277590]. WES is a syndrome of accelerated growth and osseous maturation, unusual craniofacial appearance, hoarse and low-pitched cry, and hypertonia with camptodactyly.</p> <p>Defects in NSD1 are a cause of Beckwith-Wiedemann syndrome (BWS) [MIM:130650]. BWS is a genetically heterogeneous disorder characterized by anterior abdominal wall defects including exomphalos (omphalocele), pre- and postnatal overgrowth, and macroglossia. Additional less frequent complications include specific developmental defects and a predisposition to embryonal tumors.</p> <p>Note=A chromosomal aberration involving NSD1 is found in childhood acute myeloid leukemia. Translocation t(5;11)(q35;p15.5) with NUP98.</p> <p>Note=A chromosomal aberration involving NSD1 is found in an adult form of myelodysplastic syndrome (MDS). Insertion of NUP98 into NSD1 generates a NUP98-NSD1 fusion product.</p>
Sequence similarities	<p>Belongs to the histone-lysine methyltransferase family.</p> <p>Contains 1 AWS domain.</p> <p>Contains 4 PHD-type zinc fingers.</p> <p>Contains 1 post-SET domain.</p> <p>Contains 2 PWWP domains.</p> <p>Contains 1 SET domain.</p>
Cellular localization	Nucleus. Chromosome.

Images



Immunocytochemistry/ Immunofluorescence - Anti-KMT3B / NSD1 antibody (ab222145)

PFA fixed/ Triton X-100 permeabilized HEK293 (human epithelial cell line from embryonic kidney) cells stained for KMT3B / NSD1 (green) using ab222145 (4 µg/ml) in Immunocytochemistry/ Immunofluorescence.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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