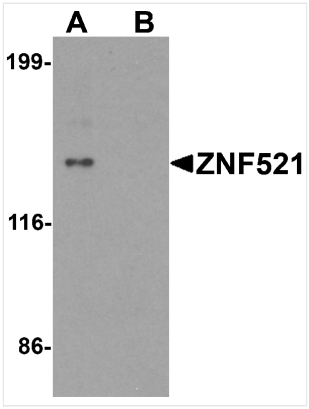
ZNF521 Antibody – Rabbit Polyclonal

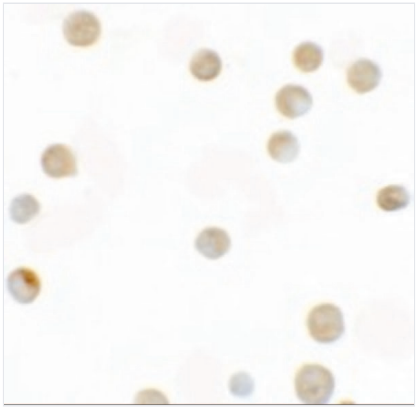
PRODUCT OVERVIEW

Product Name	ZNF521, Polyclonal Antibody
Full Product Name	ZNF521 Antibody
Product Gene Name	anti-ZNF521 antibody
Product Synonym Names	ZNF521; EHZF; Evi3; EHZF; LIP3; Zinc finger protein 521; Early hematopoietic zinc finger protein; zinc finger protein 521
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	ZNF521 Antibody is affinity chromatography purified via peptide column.
Concentration	1 mg/mL (lot specific)
Specificity	ZNF521 antibody is human specific.
Preparation and Storage	ZNF521 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	ZNF521 peptide (MBS153010) is used for blocking the activity of ZNF521 antibody (MBS150459)
Molecular Weight	147,866 Da
OMIM	610974
3D Structure	ModBase 3D Structure for Q96K83
Conjugate	Unconjugated
Immunogen	ZNF521 antibody was raised against an 18 amino acid synthetic peptide near the amino terminus of human ZNF521.
Buffer	ZNF521 Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-ZNF521 antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)
Application Notes for anti-ZNF521 antibody	ZNF521 antibody can be used for detection of ZNF521 by Western blot at 1 mug/mL. Antibody can also be used for immunocytochemistry starting at 2.5 mug/mL. For immunofluorescence start at 2.5 mug/mL.
Related Product Information for anti-ZNF521 antibody	ZNF521 Antibody: The zinc finger protein 521 (ZNF521) is a transcription factor containing an N-terminal transcriptional repressor motif and 30 zinc finger domains. It plays a role in both erythroid cell and osteoblast differentiation during development, inhibiting the activities of early B-cell factor 1 (EBF1) in erythroid cells and Runx2 in osteoblast precursors. ZFP521 binds to both Runx2 and histone deacetylase 3 (HDAC3), promotes their association and antagonizes Runx2 transcriptional activity in a HDAC3-dependent manner, thereby regulating osteoblast differentiation, skeletal development, and bone homeostasis.
Other Notes	Small volumes of anti-ZNF521 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

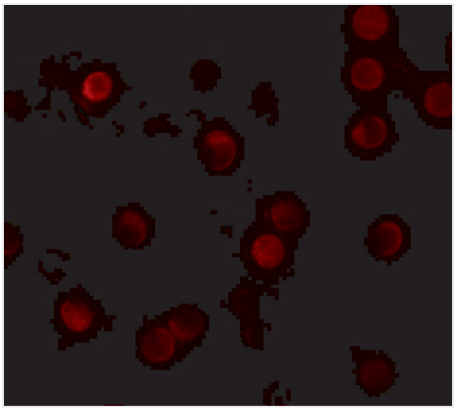
Searchable Terms for ZNF521 purchase	MBS150459 is an antibody targeting ZNF521. Also known as ZNF521 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ZNF521 antibody
Western blot analysis of ZNF521 in HeLa cell lysate with ZNF521 antibody at 1 ?g/ml in (A) the absence and (B) the presence of blocking peptide.



Immunocytochemistry (IHC) of anti-ZNF521 antibody
Immunocytochemistry of ZNF521 in HeLa cells with ZNF521 antibody at 2.5 ?g/mL.



Immunofluorescence (IF) of anti-ZNF521 antibody
Immunofluorescence of ZNF521 in HeLa cells with ZNF521 antibody at 20 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ZNF521. It may not necessarily be applicable to this product.

NCBI GI #	24308069
NCBI GeneID	25925
NCBI Accession #	NP_056276
UniProt Primary Accession #	Q96K83
UniProt Secondary Accession #	Q8IXI0; Q8TES6; Q9C065; Q9HAL5; Q9UFK4; A3QVP7; B0YJB7
UniProt Related Accession #	Q96K83
GenBank Nucleotide #	NM_015461.2
NCBI Official Full Name	zinc finger protein 521
NCBI Official Synonym Full Names	zinc finger protein 521
NCBI Official Symbol	ZNF521
NCBI Official Synonym Symbols	EHZF; Evi3
UniProt Protein Name	Zinc finger protein 521
UniProt Synonym Protein Names	Early hematopoietic zinc finger protein; LYST-interacting protein 3

Protein Family	Zinc finger protein
UniProt Gene Name	ZNF521
UniProt Synonym Gene Names	EHZF; LIP3
UniProt Entry Name	ZN521_HUMAN
NCBI Protein Information	zinc finger protein 521; LYST-interacting protein 3; early hematopoietic zinc finger protein
UniProt Comments for ZNF521	ZNF521: Transcription factor that can both act as an activator or a repressor depending on the context. Involved in BMP signaling and in the regulation of the immature compartment of the hematopoietic system. Associates with SMADs in response to BMP2 leading to activate transcription of BMP target genes. Acts as a transcriptional repressor via its interaction with EBF1, a transcription factor involved specification of B-cell lineage; this interaction preventing EBF1 to bind DNA and activate target genes. A chromosomal aberration involving ZNF521 is found in acute lymphoblastic leukemia. Translocation t(9;18)(p13;q11.2) with PAX5. The translocation generates the PAX5-ZNF521 oncogene consisting of the N-terminus part of PAX5 and the C-terminus part of ZNF521. Belongs to the krueppel C2H2-type zinc-finger protein family. Protein type: Oncoprotein; Transcription, coactivator/corepressor; C2H2-type zinc finger protein; DNA-binding Chromosomal Location of Human Ortholog: 18q11.2 Cellular Component: nucleus Molecular Function: protein domain specific binding; DNA binding; metal ion binding Biological Process: regulation of transcription, DNA-dependent; transcription, DNA-dependent; multicellular organismal development; cell differentiation
Research Articles on ZNF521	**1.** Data strongly support the notion that ZNF521, through the recruitment of the NuRD complex, contributes to the clonogenic growth, migration and tumorigenicity of medulloblastoma cells.
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