

**ZNF521 Antibody (NT)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10956****Specification**

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**ZNF521 Antibody (NT) - Product Information**

Application	ICC, WB
Primary Accession	<a href="#">Q96K83</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG1
Calculated MW	147866

**ZNF521 Antibody (NT) - Additional Information****Gene ID** 25925

Positive Control	Western Blot: HeLa cell Lysate
	IHC: HeLa cells
Application & Usage	Western Blot: 1 µg/ml, ICC: 2.5 µg/ml, ELISA. However, the optimal conditions should be determined individually.

**Other Names**

Zinc finger protein 521, EHZF, Evi3

**Target/Specificity**

ZNF521

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (1 mg/ml) in 1X PBS containing 1 mg/ml BSA, 50% glycerol and less than 0.02% sodium azide, pH 7.4.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

ZNF521 Antibody (NT) is for research use only and not for use in diagnostic or therapeutic

procedures.

## **ZNF521 Antibody (NT) - Protein Information**

**Name** ZNF521

**Synonyms** EHZF, LIP3

### **Function**

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.

### **Cellular Location**

Nucleus.

### **Tissue Location**

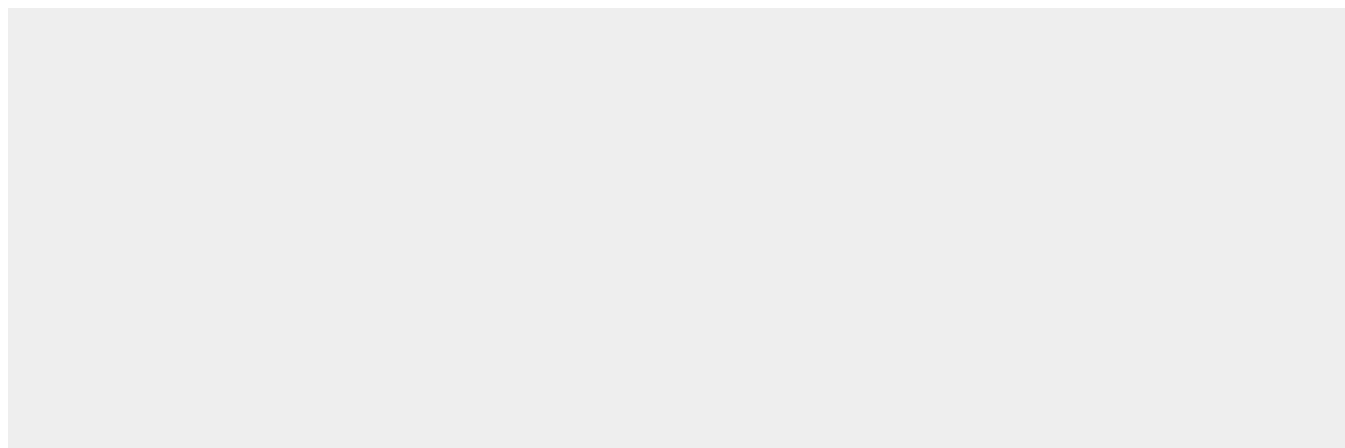
Predominantly expressed in hematopoietic cells. Present in organs and tissues that contain stem and progenitor cells, myeloid and/or lymphoid: placenta, spleen, lymph nodes, thymus, bone marrow and fetal liver. Within the hematopoietic system, it is abundant in CD34(+) cells but undetectable in mature peripheral blood leukocytes, and its levels rapidly decrease during the differentiation of CD34(+) cells in response to hemopoietins

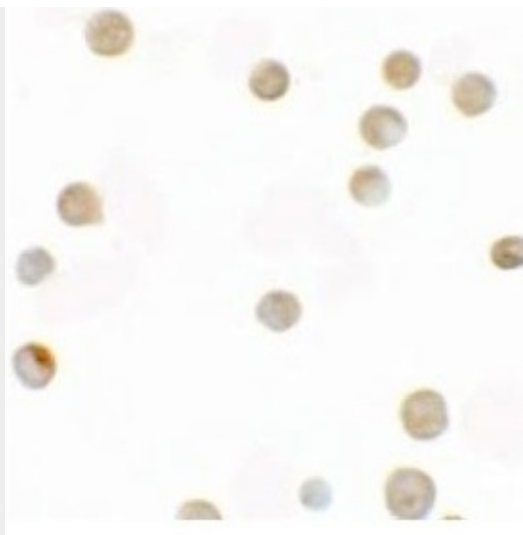
## **ZNF521 Antibody (NT) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

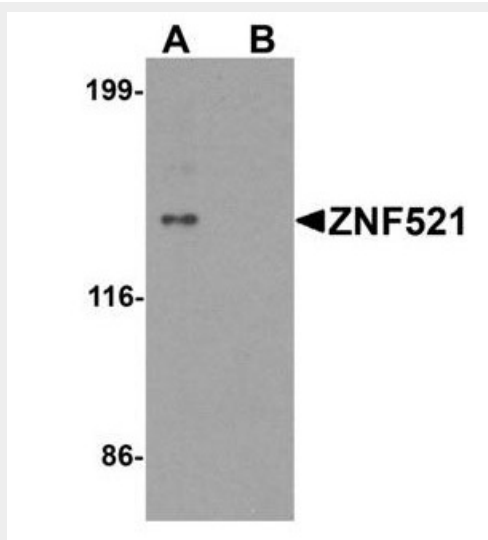
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **ZNF521 Antibody (NT) - Images**





Immunocytochemistry of ZNF521 (NT) in HeLa cells with ZNF521 (NT) antibody at 2.5µg/mL.



Western blot analysis of ZNF521 in HeLa cell lysate with ZNF521 antibody at 1 µg/ml in (A) the absence and (B) the presence of blocking peptide.

#### **ZNF521 Antibody (NT) - Background**

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.