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ZIMP10 Antibody
Catalog # ASC11301

Specification

ZIMP10 Antibody - Product Information

Application	**WB, ICC, IF**
Primary Accession	Q9ULJ6
Other Accession	NP_65071, 31543543
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**ZIMP10 antibody can be used for detection of ZIMP10 by Western blot at 0.5 µg/mL. Antibody can also be used for immunocytochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.**

ZIMP10 Antibody - Additional Information

Gene ID **57178**

Target/Specificity
ZMIZ1; At least three isoforms are known to exist; this antibody will recognize all three. ZIMP10 antibody is predicted to not cross-react with other PIAS protein family members.

Reconstitution & Storage
ZIMP10 antibody can be stored at 4℃ for three months and -20℃, 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.

Precautions
ZIMP10 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ZIMP10 Antibody - Protein Information

Name ZMIZ1 (HGNC:16493)

Synonyms KIAA1224, RAI17, ZIMP10

Function
Acts as a transcriptional coactivator. Increases ligand- dependent transcriptional activity of AR and promotes AR sumoylation. The stimulation of AR activity is dependent upon sumoylation (PubMed:14609956, PubMed:26522984). Also functions as a transcriptional coactivator in the TGF-beta signaling pathway by increasing the activity of the SMAD3/SMAD4 transcriptional complex (PubMed:16777850). Involved in

transcriptional activation of a subset of NOTCH1 target genes including MYC. Involved in thymocyte and T cell development (By similarity). Involved in the regulation of postmitotic positioning of pyramidal neurons in the developing cerebral cortex (PubMed:30639322).

Cellular Location
Nucleus, nucleoplasm. Cytoplasm. Nucleus Note=Enriched at replication foci throughout S phase

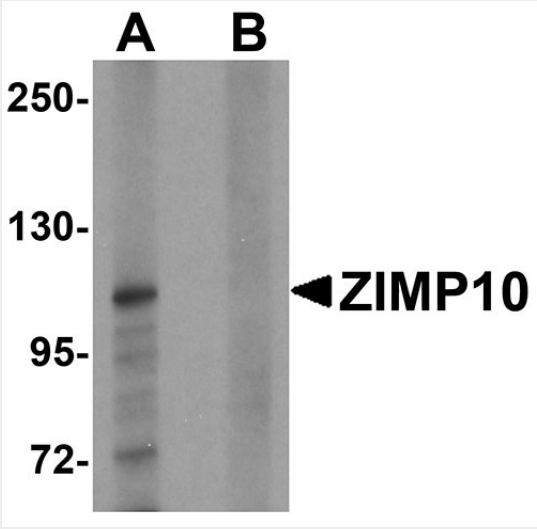
Tissue Location
Expressed most abundantly in ovary and, at lower levels, in prostate, spleen and testis. Weak expression, if any, in thymus, small intestine, colon and peripheral blood leukocytes

ZIMP10 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ZIMP10 Antibody - Images



Western blot analysis of ZIMP10 in K562 cell lysate with ZIMP10 antibody at 0.5 µg/mL in (A) the absence and (B) the presence of blocking peptide

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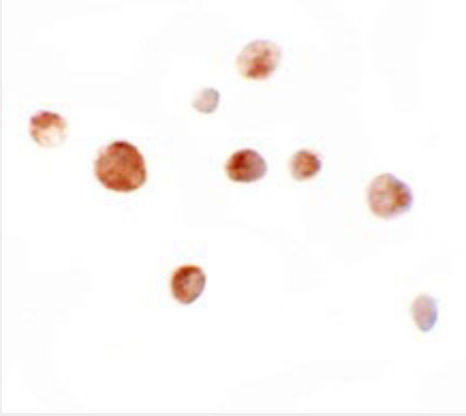
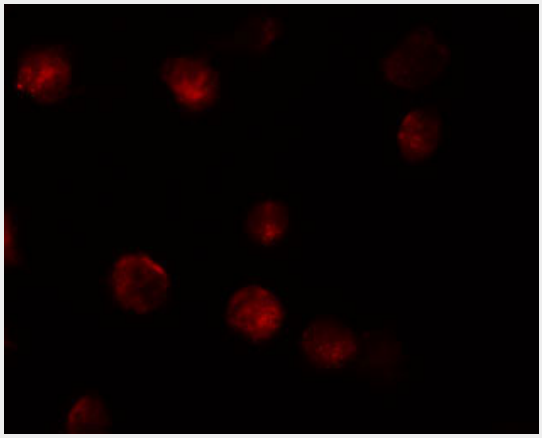


Immunocytochemistry of ZIMP10 in K562 cells with ZIMP10 antibody at 10 µg/mL.



Immunofluorescence of ZIMP10 in K562 cells with ZIMP10 antibody at 20 µg/mL.

ZIMP10 Antibody - Background

ZIMP10 Antibody: ZIMP10, also known as ZMIZ1, is a novel PIAS (protein inhibitor of activated signal transducer and activator of transcription)-like protein initially identified as a transcriptional co-activator of the androgen receptor (AR). ZIMP10 and the related protein ZIMP7 interact with PIAS3 and enhances AR-mediated transcription. Later experiments showed that ZIMP10 is also a co-activator of the p53 tumor suppressor. Mice deficient in ZIMP10 result in embryonic lethality by E10.5; these embryos reveal severe defects in the reorganization of the yolk sac vascular plexus, indicating that ZIMP10 plays an important role in proper vascular development.

ZIMP10 Antibody - References

Sharma M, Li X, Wang Y, et al. hZimp10 is an androgen receptor co-activator and forms a complex with sUMO-1 at replication foci. EMBO J. 2003; 22:6101-14.
Beliakoff J and Sun Z. Zimp7 and Zimp10, two novel PIAS-like proteins, function as androgen receptor coregulators. Nucl. Recept. Signal. 2006; 4:e017.
Lee J, Beliakoff J, and Sun Z. The novel PIAS-like protein hZimp10 is a transcriptional co-activator of the p53 tumor suppressor. Nuc. Acids Res. 2007; 35:4523-34
Beliakoff J, Lee J, Ueno H, et al. The PIAS-like protein Zimp10 is essential for embryonic viability and proper vascular development. Mol. Cell. Biol. 2008; 28:282-92.