

Rabbit ZW10 Polyclonal Antibody | anti-ZW10 antibody

ZW10 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328987	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(86%)	ELISA

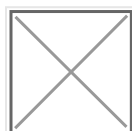
PRODUCT SYNONYMS

ZW10; Polyclonal Antibody; ZW10 Antibody; Centromere/kinetochore protein zw10; Centromere/kinetochore protein zw10 homolog; HZW 10; HZW10; Kinetochore associated homolog; KNTC1AP; MGC149821; Zeste white 10; Zeste white 10 homolog; ZW 10; ZW 10 homolog centromere/kinetochore protein; ZW 10 kinetochore associated homolog; ZW10 (Drosophila) homolog centromere/kinetochore protein; Zw10; ZW10 homolog centromere/kinetochore protein (Drosophila); ZW10 homolog centromere/kinetochore protein; ZW10 kinetochore associated homolog; kinetochore associated; homolog (Drosophila); ZW10_HUMAN; anti-ZW10 antibody

PRODUCT SPECIFICATIONS

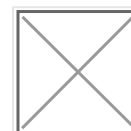
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(86%)
Clonality	Polyclonal
Isotype	IgG
Specificity	ZW10 Antibody detects endogenous levels of total ZW10.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	779
Applicable Applications for anti-ZW10 antibody	ELISA
Immunogen	A synthesized peptide derived from human ZW10, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA328987 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328987 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from 3T3, using ZW10 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ZW10 antibody	Function: Essential component of the mitotic checkpoint, which prevents cells from prematurely exiting mitosis. Required for the assembly of the dynein-dynactin and MAD1-MAD2 complexes onto kinetochores. Its function related to the spindle assembly machinery is proposed to depend on its association in the mitotic RZZ complex (PubMed:11590237, PubMed:15485811, PubMed:15824131). Involved in regulation of membrane traffic between the Golgi and the endoplasmic reticulum (ER); the function is proposed to depend on its association in the interphase NRZ complex which is believed to play a role in SNARE assembly at the ER (PubMed:15029241). Subcellular Location: Cytoplasm. Endoplasmic reticulum membrane>Peripheral membrane protein. Chromosome>Centromere>Kinetochore. Cytoplasm>Cytoskeleton>Spindle. Note: Dynamic pattern of localization during the cell cycle. In most cells at interphase, present diffusely in the cytoplasm (PubMed:15029241). In prometaphase, associated with the kinetochore. At metaphase, detected both at the kinetochores and, most prominently, at the spindle, particularly at the spindle poles. In very early anaphase, detected on segregating kinetochores. In late anaphase and telophase, accumulates at the spindle midzone (PubMed:11590237). Tissue Specificity: Widely expressed. Subunit Structure: Interacts with NBAS and KNTC1/ROD; the interactions are mutually exclusive and indicative for its association in two different vesicle tethering complexes (PubMed:11590237, PubMed:15824131, PubMed:20462495). Component of the RZZ complex composed of KNTC1/ROD, ZW10 and ZWILCH (PubMed:12686595, PubMed:20462495). Component of the NRZ complex composed of NBAS, ZW10 and RINT1/TIP20L; NRZ associates with SNAREs STX18, USE1L, BNIP1/SEC20L and SEC22B (the assembly has been described as syntaxin 18 complex). Interacts directly with RINT1/TIP20L bound to BNIP1/SEC20L (PubMed:15029241, PubMed:15272311, PubMed:20462495, PubMed:19369418). Interacts with C19orf25 and ZWINT (PubMed:15485811, PubMed:15824131., PubMed:16732327). Similarity: Belongs to the ZW10 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11387251
NCBI GeneID	9183
UniProt Accession #	O43264
Molecular Weight	Observed Molecular Weight: (Observed)88kD. Predicted Molecular Weight: (Calculated)89kDa.
NCBI Official Full Name	Centromere/kinetochore protein zw10 homolog
NCBI Official Synonym Full Names	zw10 kinetochore protein
NCBI Official Symbol	ZW10
NCBI Official Synonym Symbols	HZW10; KNTC1AP
NCBI Protein Information	centromere/kinetochore protein zw10 homolog
UniProt Protein Name	Centromere/kinetochore protein zw10 homolog
UniProt Gene Name	ZW10
UniProt Entry Name	ZW10_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.