10320 Camino Santa Fe, Suite G
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C6ORF173 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55883

Specification

C6ORF173 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, ICC, E**
Primary Accession	Q5EE01
Reactivity	**Rat, Pig, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**10 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human C6ORF173**
Epitope Specificity	**31-88/88**
Isotype	**IgG**
Purity affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Nucleus. Chromosome, centromere. Chromosome, centromere, kinetochore. Nucleus matrix. Nucleus, nucleolus. Note=Constitutively localizes to centromeres throughout the cell cycle, and to the inner kinetochore during mitosis.**
SIMILARITY	**Belongs to the CENPW family.**
SUBUNIT	**Part of a centromere complex consisting of CENPA, CENPT and CENPW. Part of a centromere complex consisting of histone H3, CENPT and CENPW. Interacts directly with CENPT. Component of a heterotetrameric CENP-T-W-S-X complex composed of APITD1/CENPS, STRA13/CENPX, CENPT and CENPW. Interacts with NPM1. Binds DNA.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation (By similarity). The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres (By similarity). Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPW has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding

downstream. Required for normal chromosome organization and normal progress through mitosis.

C6ORF173 Polyclonal Antibody - Additional Information

Gene ID 387103

Other Names
Centromere protein W, CENP-W, Cancer-up-regulated gene 2 protein, CENPW, C6orf173, CUG2

Target/Specificity
Highly expressed in ovary, liver, lung and pancreas and to a lower extent in breast and gastrointestinal tract cancers; such as those of the colon, rectum and stomach. Overexpressed in high grade breast invasive tumors. Expressed in many cancer cell types.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

C6ORF173 Polyclonal Antibody - Protein Information

Name CENPW

Synonyms C6orf173, CUG2

Function
Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation (By similarity). The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres (By similarity). Part of a nucleosome-associated complex that binds specifically to histone H3-containing nucleosomes at the centromere, as opposed to nucleosomes containing CENPA. Component of the heterotetrameric CENP-T-W-S-X complex that binds and supercoils DNA, and plays an important role in kinetochore assembly. CENPW has a fundamental role in kinetochore assembly and function. It is one of the inner kinetochore proteins, with most further proteins binding downstream. Required for normal chromosome organization and normal progress through mitosis.

Cellular Location
Nucleus. Chromosome, centromere. Chromosome, centromere, kinetochore. Nucleus matrix. Nucleus, nucleolus. Note=Constitutively localizes to centromeres throughout the cell cycle, and to the inner kinetochore during mitosis. {ECO:0000250|UniProtKB:P0DJH6}

Tissue Location
Highly expressed in ovary, liver, lung and pancreas and to a lower extent in breast and gastrointestinal tract cancers; such as those of the colon, rectum and stomach. Overexpressed in high grade breast invasive tumors. Expressed in many cancer cell types

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C6ORF173 Polyclonal 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

C6ORF173 Polyclonal Antibody - Images