



# CEP55 rabbit pAb

Cat No.:ES1951

For research use only

## Overview

<b>Product Name</b>	CEP55 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse;
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CEP55. AA range:81-130
<b>Specificity</b>	CEP55 Polyclonal Antibody detects endogenous levels of CEP55 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Centrosomal protein of 55 kDa
<b>Gene Name</b>	CEP55
<b>Cellular localization</b>	Cytoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cleavage furrow . Midbody, Midbody ring . Present at the centrosomes at interphase. A small portion is associated preferentially with the mother centriole, whereas the majority localizes to the pericentriolar material. During mitosis, loses affinity for the centrosome at the onset of prophase and diffuses throughout the cell. This dissociation from the centrosome is phosphorylation-dependent. May remain localized at the centrosome during mitosis in certain cell types. Appears at the cleavage furrow in late anaphase and in the midbody in cytokinesis. . The antibody was affinity-purified from rabbit

## Purification



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**Clonality**

**Concentration**

**Observed band**

**Human Gene ID**

**Human Swiss-Prot Number**

**Alternative Names**

**Background**

antiserum by affinity-chromatography using epitope-specific immunogen.

Polyclonal

1 mg/ml

54kD

55165

Q53EZ4

CEP55; C10orf3; URCC6; Centrosomal protein of 55 kDa; Cep55; Up-regulated in colon cancer 6

function:Plays a role in mitotic exit and cytokinesis.

Not required for microtubule nucleation. Recruits

PDCD6IP and TSG101 to midbody during

cytokinesis.,PTM:There is a hierachy of

phosphorylation, where both Ser-425 and Ser-428

are phosphorylated at the onset of mitosis, prior to

Ser-436. Phosphorylation at Ser-425 and Ser-428 is

required for dissociation from the centrosome at the

G2/M boundary. Phosphorylation at the 3 sites,

Ser-425, Ser-428 and Ser-436, is required for protein

function at the final stages of cell division to

complete cytokinesis successfully.,subcellular

location:Present at the centrosomes at interphase. A

small portion is associated preferentially with the

mother centriole, whereas the majority localizes to

the pericentriolar material. During mitosis, loss of

affinity for the centrosome at the onset of prophase

and diffusion throughout the cell. This dissociation

from the centrosome is

phosphorylation-dependent. May remain localized

at the centrosome during mitosis in certain cell

types. Appears at the cleavage furrow in late

anaphase and in the midbody in

cytokinesis.,subunit:Homodimer. Interacts

(phosphorylated on Ser-425 and Ser-428) with PLK1.

Interacts with AKAP9; the interaction occurs in

interphase and is lost upon mitotic entry. Interacts

with PCNT; the interaction occurs in interphase and

is lost upon mitotic entry. Interacts with PDCD6IP;

the interaction is direct; CEP55 binds PDCD6IP in a

2:1 stoichiometry; PDCD6IP competes with TSG101

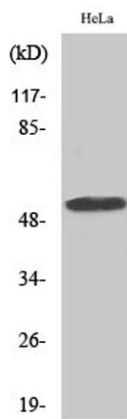
for the same binding site. Interacts with TSG101;

TSG101 competes with PDCD6IP for the same

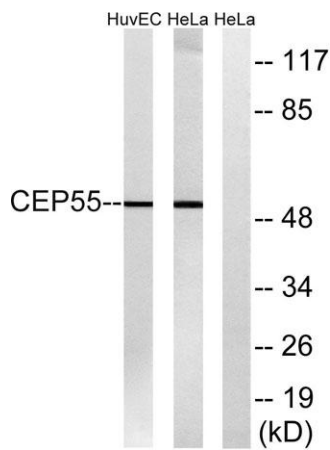




binding site; interaction is required for cytokinesis but not for viral budding. Interacts with FAM125A, VPS37B, VPS37C and VPS28.,tissue specificity:Widely expressed, mostly in proliferative tissues. Highly expressed in testis. Intermediate levels in adult and fetal thymus, as well as in various cancer cell lines. Low levels in different parts of the digestive tract, bone marrow, lymph nodes, placenta, fetal heart and fetal spleen. Hardly detected in brain.,



Western Blot analysis of various cells using CEP55 Polyclonal Antibody

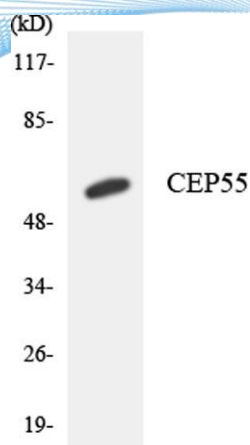


Western blot analysis of lysates from HeLa and HUVEC cells, using CEP55 Antibody. The lane on the right is blocked with the synthesized peptide.

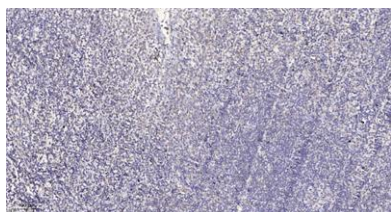




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Western blot analysis of the lysates from COLO205 cells using CEP55 antibody.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



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