Anti-APC15 [APC15]

Catalogue number: 151709
Sub-type: Primary antibody
Images:

Contributor

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Institute: University of Cambridge
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-APC15 [APC15]

Alternate name:

Class: Polyclonal
Conjugate: Unconjugated
Description: The uncharacterised open reading frame C11orf51 has been identified in a systematic proteomic analysis of APC/C purified from HeLa cell extracts. Human C11orf51 is conserved in vertebrates and invertebrates and has homology to S. pombe APC15, and S. cerevisiae Mnd2. hAPC15 is previously uncharacterised. It has been shown for the first time that human APC15 is a component of the Anaphase promoting complex/cyclosome (APC/C) which is required for progression from metaphase during cell cycle. Specifically, APC15 drives the turnover of mitotic checkpoint complexes (MCC)-Cdc20 to make the spindle-assembly checkpoint responsive to kinetochore attachment. Depleting APC15 prevents Cyclin B1 ubiquitylation and degradation because MCCs are locked onto the APC/C and cannot be released when all the kinetochores have attached to the spindle.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity: Human
Selectivity:
Host: Guinea Pig
Immunogen: Full length His-TEVhAPC15 purified from BL21 E.coli
Immunogen UNIPROT ID:
Sequence:

Growth properties:
Production details:
Formulation:
Recommended controls: Asynchronous human cell lysates are sufficient.
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Human APC15

Target alternate names:

Target background: The uncharacterised open reading frame C11orf51 has been identified in a systematic proteomic analysis of APC/C purified from HeLa cell extracts. Human C11orf51 is conserved in vertebrates and invertebrates and has homology to S. pombe APC15, and S. cerevisiae Mnd2. hAPC15 is previously uncharacterised. It has been shown for the first time that human APC15 is a component of the Anaphase promoting complex/cyclosome (APC/C) which is required for progression from metaphase during cell cycle. Specifically, APC15 drives the turnover of mitotic checkpoint complexes (MCC)-Cdc20 to make the spindle-assembly checkpoint responsive to kinetochore attachment. Depleting APC15 prevents Cyclin B1 ubiquitylation and degradation because MCCs are locked onto the APC/C and cannot be released when all the kinetochores have attached to the spindle.

Molecular weight: 14 kDa

Ic50:

Applications

Application: IP ; WB
Application notes:

Handling

Format: Liquid
Concentration: 0.9-1.1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:

Storage conditions: -15° C to -25° C
Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Vlatkovic et al. 2011. Cancer. 117(13):2939-50. PMID: 21692053. ; Loss of MTBP expression is associated with reduced survival in a biomarker-defined subset of patients with squamous cell carcinoma of the head and neck.