

# Anti-Phospho RacGAP1 (Ser157) [pS157 HsCyk-4]

**Catalogue number:** 151587

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Mark Petronczki

**Institute:** Cancer Research UK, London Research Institute: Clare Hall Laboratories

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-Phospho RacGAP1 (Ser157) [pS157 HsCyk-4]

**Alternate name:** Cyk-4

**Class:** Polyclonal

**Conjugate:** Unconjugated

**Description:** HsCyk-4 (or MgcRacGAP) is a subunit of the centralspindlin, and contains a GTPase activator protein (GAP) domain and directly interacts with the GTP exchange factor (GEF) Ect2, and both HsCyk-4 and Ect2 are essential for equatorial recruitment of the RhoA GTPase, the master regulator of actomyosin dynamics during cytokinesis. Plk1 binds and directly phosphorylates the HsCyk-4.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:**

**Reactivity:** Human ; Mouse ; Rat

**Selectivity:**

**Host:** Rabbit

**Immunogen:** Synthetic phospho-peptide ILSDI-pS-FDKTD corresponding to HsCyk-4 aa 152-162 (human)

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** Western blot on mitotic HeLa cell lysates (e.g. nocodazole arrested cells)

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** pS157 HsCyk-4 (MgcRacGAP and RacGAP1)

**Target alternate names:**

**Target background:** HsCyk-4 (or MgcRacGAP) is a subunit of the centralspindlin, and contains a GTPase activator protein (GAP) domain and directly interacts with the GTP exchange factor (GEF) Ect2, and both HsCyk-4 and Ect2 are essential for equatorial recruitment of the RhoA GTPase, the master regulator of actomyosin dynamics during cytokinesis. Plk1 binds and directly phosphorylates the HsCyk-4.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** IF ; 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:** -80° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Sarshad et al. 2013. PLoS Genet. 9(3):e1003397. PMID: 23555303. ; Nuclear myosin 1c facilitates the chromatin modifications required to activate rRNA gene transcription and cell cycle progression. ; Bozhenok et al. 2002. EMBO J. 21(9):2231-41. PMID: 11980720. ; WSTF-ISWI chromatin remodeling complex targets heterochromatic replication foci.

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