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Monoclonal Antibody Against CEP164 (Clone 13)

Tech ID: 25195 / UC Case 2011-388-0

BRIEF DESCRIPTION

Mouse monoclonal antibody against the human centrosomal protein 164kDa (Cep164). This antibody binds to the phosphorylation site of Cep164 and has been tested for use in immunocytochemistry/immunofluorescence, immunoprecipitation, and western blot.

FULL DESCRIPTION

Centrosomal protein 164kDa (Cep164) is involved in a number of cellular pathways. It is important for microtubule organization and maintenance for the formation of primary cilia. Additionally, Cep164 is critical for G2/M checkpoint and nuclear divisions. Cep164 is also involved in DNA damage-activated ATR/ATM signaling through proper phosphorylation of H2AX, RPA, CHK2, and CHK1. Furthermore, by modulating MDC1, RPA, and CHK1, Cep164 is a mediator that maintains genomic stability critical for chromosomal segregation.

The described mouse monoclonal IgG1 antibody binds to human Cep164 and has been described for use in immunocytochemistry/immunofluorescence, immunoprecipitation, and western blot.

SUGGESTED USES

Immunocytochemistry/immunofluorescence

Immunoprecipitation

Western blot

ADVANTAGES

Specific antibody to detect Cep164 by antibody-antigen complex formation.

RELATED MATERIALS

» [Cep164 is a mediator protein required for the maintenance of genomic stability through modulation of MDC1, RPA, and CHK1. - 02/18/2008](#)

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OTHER INFORMATION

KEYWORDS

Monoclonal antibody,
Centrosomal protein 164kDa,
Cep164,
Immunocytochemistry/immunofluorescence,
Immunoprecipitation,
Western blot

CATEGORIZED AS

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RELATED CASES

2011-388-0, 2011-086-0,
2011-375-0, 2011-376-0,
2011-377-0, 2011-378-0,
2011-379-0, 2011-380-0,
2011-381-0, 2011-382-0,
2011-383-0, 2011-384-0,
2011-385-0, 2011-386-0,
2011-387-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ Monoclonal Antibodies Against Chk2 (Clone 4B8)
- ▶ Monoclonal Antibody against ATR-IP (Clone 11)
- ▶ Monoclonal Antibody Against mtPAP (Clone 3D2)

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