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Monoclonal Antibody Against CEP164 (Clone 17)

Tech ID: 25194 / UC Case 2011-386-0

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 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 immunoprecipitation and western blot.

SUGGESTED USES

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

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RELATED CASES

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