Human/Mouse Bub3 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5706T
100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Bub3 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Bub1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Bub3 Met1-Thr328 Accession # O43684
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Bub3 (Budding uninhibited by benzimidazoles 3 homolog; also Mitotic checkpoint protein Bub3) is a 35-40 kDa member of the WD repeat Bub3 family of molecules. It plays a key role in chromosome segregation by serving as a component of the mitotic checkpoint complex. This complex inhibits Cdc20, and E3 ubiquitin ligase that initiates the metaphase to anaphase transition, until microtubules are properly aligned with, and bound to, chromatid kinetochores. Human Bub3 is 328 amino acids (aa) in length. It contains five WD40 repeats (aa 5-43, 46-83, 86-124, 128-163 and 223-262) plus a phosphorylation site at Ser211 and a Lys at # 216 that may form an interchain crosslink with Gly. There are two splice variants that show two or four aa deletion over the four C-terminal amino acids. Full-length human and mouse Bub3 share 99% aa identity.

PRODUCT SPECIFIC NOTICES

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