KIF11

Rabbit Anti-Human Kinesin Family Member 11 Phospho-Thr927 Clone Poly6205 pAb

Catalog No.	CSI14284 CSI14285	**Quantity:**	50 µl 200 µl

Alternate Names: EG5, HKSP, KNSL1, TRIP5, kinesin-like 1, kinesin-like spindle protein, kinesin-related motor protein, thyroid receptor interacting protein 5

Description: hEg5 (also known as kinesin-like protein KIF11, kinesin-related motor protein Eg5, kinesin-like spindle protein HKSP, and thyroid receptor interacting protein 5 (TRIP5)) is a 119 kD kinesin-like protein family, BimC subfamily. This protein is a catalytic kinesin motor with coiled-coil and Smc domains. hEg5 is localized at the centrosomes, spindle microtubules, and intracellular bridge. This motor protein is required for establishing the bipolar spindle. hEg5 is modified by phosphorylation on Thr927 by Cdc2 to allow association with the spindle apparatus. hEg5 has been shown to interact with the thyroid hormone receptor in presence of thyroid hormone and Cdc2. The Poly6205 antibody has been shown to react with phosphorylated human Eg5 (Thr927) by Western blot.

Concentration: 0.5 mg/ml

Gene ID: 3832

Structure: Kinesin-like protein family, BimC subfamily, kinesin motor catalytic, coiled-coil, Smc domains; 119 kD.

Distribution: Centrosomes, spindle microtubules, intracellular bridge.

Host: Rabbit

Immunogen: Modified peptide

Isotype: IgG

Clone: Poly6205

Function: Motor protein required for establishing bipolar spindle.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. **Precaution:** Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Purification: The antibody was purified by antigen-affinity chromatography.

Regulation: Phosphorylation on Thr927 by Cdc2 allows association with spindle apparatus.

Reactivity: Human, reacts with Thr927-phosphorylated hEg5

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Applications: Western Blot, Immunofluorescence Microscopy

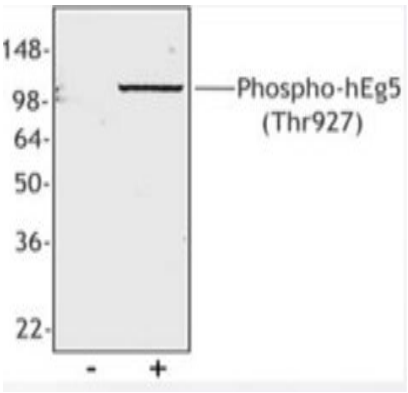
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application

Storage & Stability: Upon receipt, store frozen at -20° C.

Modification: Phosphorylation

Interaction: Thyroid hormone receptor in presence of thyroid hormone, Cdc2.

Hela cells were treated with 300 µM mimosine for 16 hrs, then placed in complete media (lane 1) or media containing 200 ng/ml nocodazole for an additional 18hrs. Cell extracts were resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit antibody against phosphorylated Eg5 (Thr927). Lane 1, Mimosine only treated Hela cells; Lane 2, mimosine and nocodazole treated Hela. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



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