

11-434-C025

Polyclonal Antibody to Kinesin Purified Antibody (0.025 mg)

Clone:	Polyclonal
Isotype:	Rabbit None
Specificity:	The polyclonal antibody detects total level of endogenous kinesin protein.
Regulatory Status:	RUO
Immunogen:	stalk domain of human kinesin (aa 331-906) expressed in E. coli (FKHC3)
Species Reactivity:	Human, Porcine, Mouse, Other not tested
Application:	Western Blotting Immunocytochemistry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified from rabbit serum by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Kinesin belongs to the group of microtubule-associated motor proteins known to convert chemical energy released from nucleoside triphosphates (preferentially from ATP) into mechanical energy. Conventional kinesin, member of the kinesin superfamily comprising more than 100 proteins, is involved in the anterograde vesicle transport in neuronal cells. Kinesin purified from mammalian brain homogenates is a heterotetramer consisting of two heavy (120 to 130 kDa) and two light chains (60 to 70 kDa), resulting in a molecular mass about 400 kDa. Each heavy chain contains an N-terminal globular motordomain with both a microtubule-binding site and an ATPase active center, stalk region responsible for heavy chain dimerization and finally C-terminal globular tail domain, which is implicated in cargo binding. Light chains may have a regulatory function.
References:	*Malcova-Janatova I, Richterova V, Draber P, Hasek J: Preparation of human recombinant kinesin heavy chain and epitope mapping of its structural domains. Folia Microbiol (Praha). 2004;49(6):665-70.

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