

Product datasheet for **AP03003PU-N**

KIF5B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blotting. Immunocytochemistry.
Reactivity:	Human, Mouse, Porcine
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Stalk domain of Human Kinesin (aa 331-906) expressed in E. coli (FKHC3)
Specificity:	The polyclonal antibody detects total level of endogenous Kinesin protein.
Formulation:	PBS, pH~7.4 State: Purified State: Liquid purified IgG fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	Protein A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	kinesin family member 5B
Database Link:	Entrez Gene 3799 Human P33176



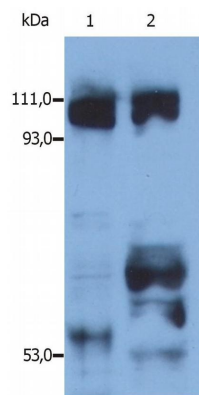
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Background:

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.

Synonyms:

KIF5B, KNS, KNS1, Kinesin-1 heavy chain, Ubiquitous kinesin heavy chain, UKHC, Conventional kinesin heavy chain

Product images:

Detection of kinesin in reduced lysates of human HEK cell line (1) and porcine brain (2) by rabbit polyclonal anti-kinesin.