

LY6K Antibody

Catalog # ASC11357

Product Information

Application	WB, E
Primary Accession	Q17RY6
Other Accession	EAW82311 , 237820711
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	18673
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	LY6K antibody can be used for detection of LY6K by Western blot at 1 - 2 μ g/mL.

Additional Information

Gene ID	54742
Other Names	Lymphocyte antigen 6K, Ly-6K, LY6K, CO16
Target/Specificity	LY6K; Multiple isoforms of LY6K are known to exist.
Reconstitution & Storage	LY6K antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	LY6K Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	LY6K (HGNC:24225)
Synonyms	CO16 {ECO:0000303 Ref.1}
Function	Required for sperm migration into the oviduct and male fertility by controlling binding of sperm to zona pellucida (By similarity). May play a role in cell growth (PubMed: 18089789).
Cellular Location	Secreted. Cytoplasm. Cell membrane {ECO:0000250 UniProtKB:Q9CWP4}; Lipid-anchor, GPI-anchor {ECO:0000250 UniProtKB:Q9CWP4}. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250 UniProtKB:Q9CWP4}. Membrane raft {ECO:0000250 UniProtKB:Q9CWP4}

Tissue Location

Specifically expressed in testis (at protein level).

Background

LY6K Antibody: The lymphocyte antigen 6 complex locus K (LY6K), a member of cancer-testis antigen was initially identified as a molecular marker for head-and-neck squamous cell carcinoma as well a breast cancer. LY6K is a GPI-anchored membrane protein that is specifically associated with germ cell marker TEX101 and is strongly observed in testis, but only weakly in other tissues. LY6K mRNA was found to be upregulated in numerous bladder cancers due to gene amplification. Furthermore, knockdown experiments using LY6K siRNA reduced cell growth, migration and invasion in bladder carcinoma cell lines, suggesting that LY6K contributes to bladder cancer development.

References

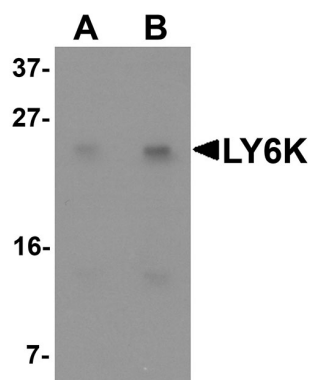
de Nooij-van Dalen AG, van Dongen GA, Smeets SJ, et al. Characterization of the human Ly-6 antigens, the newly annotated member Ly-6K included, as molecular markers for head-and-neck squamous cell carcinoma. *Int. J. Cancer* 2003; 103:768-74.

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Images



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