

Ly6k Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	18	Rabbit	#Q9CWP4	76486

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Ly6k Antibody recognizes endogenous levels of total Ly6k protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro70 of murine Ly6k protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Cancer/testis antigens (CTAs) are a family of more than 100 proteins whose normal expression is largely restricted to immune privileged germ cells of the testis, ovary, and trophoblast cells of the placenta. Although most normal somatic tissues are void of CTA expression, due to epigenetic silencing of gene expression, their expression is upregulated in a wide variety of human solid and liquid tumors (1,2). As such, CTAs have garnered much attention as attractive targets for a variety of immunotherapy-based approaches to selectively attack tumors (3).

Ly6k is a member of the Ly6/urokinase type plasminogen activator receptor-like protein (uPAR)(LU) superfamily. It is expressed in testes where in interaction with another (uPAR)(LU) family member, TEX101, it is proposed to be necessary for the production of viable sperm (4). The human ortholog of this protein, LY6K, has been characterized to be a cancer testes antigen. It is found to be upregulated in numerous types of cancer, including esophageal squamous cell carcinoma, bladder cancer, and breast cancer (5,6).

Background References

1. Caballero, O.L. and Chen, Y.T. (2009) *Cancer Sci* 100, 2014-21.
2. De Smet, C. et al. (1999) *Mol Cell Biol* 19, 7327-35.
3. Gjerstorff, M.F. et al. (2015) *Oncotarget* 6, 15772-87.
4. Endo, S. et al. (2016) *Sci Rep* 6, 23616.
5. Ishikawa, N. et al. (2007) *Cancer Res* 67, 11601-11.
6. Kono, K. et al. (2009) *Cancer Sci* 100, 1502-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

M: Mouse

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