



Product Information Sheet

Polyclonal Anti- CD82

Catalogue No. PA1307

Lot No. 09H01

Ig type rabbit IgG

Size 100µg/vial

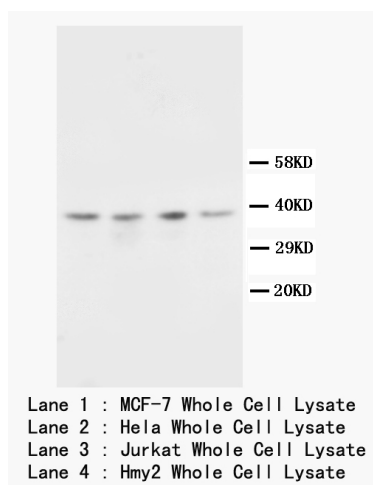
Specificity

Human, rat, mouse.

No cross reactivity with other proteins.

Recommended application

Western blot



Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human CD82, different to the related mouse sequence by two amino acids.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat	Ms	-
IHC-P	-	-	-	-
IHC-F	-	-	-	-
ICC	-	-	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

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BACKGROUND

CD82 (Cluster of Differentiation 82), also named KAI1, is a human protein encoded by the CD82 gene. The gene is mapped to 11p11.2.¹ This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter.² The expression of CD82 protein appears to be correlated with lymph node metastasis in esophageal squamous cell carcinoma (ESCC).³ And the CD82 overexpression can suppress tumor invasiveness and metastatic potential by inducing MMP9 inactivation via upregulation of TIMP1.⁴

REFERENCE

1. Dong, J.-T.; Lamb, P. W.; Rinker-Schaeffer, C. W.; Vukanovic, J.; Ichikawa, T.; Isaacs, J. T.; Barrett, J. C. : KAI1, a metastasis suppressor gene for prostate cancer on human chromosome 11p11.2. *Science* 268: 884-886, 1995.
2. Mashimo, T.; Watabe, M.; Hirota, S.; Hosobe, S.; Miura, K.; Tegtmeyer, P. J.; Rinker-Schaeffer, C. W.; Watabe, K. : The expression of the KAI1 gene, a tumor metastasis suppressor, is directly activated by p53. *Proc. Nat. Acad. Sci.* 95: 11307-11311, 1998.
3. Miyazaki, T.; Kato, H.; Shitara, Y.; Yoshikawa, M.; Tajima, K.; Masuda, N.; Shouji, H.; Tsukada, K.; Nakajima, T.; Kuwano, H. : Mutation and expression of the metastasis suppressor gene KAI1 in esophageal squamous cell carcinoma. *Cancer* 89: 955-962, 2000.
4. Jee, B. K.; Park, K. M.; Surendran, S.; Lee, W. K.; Han, C. W.; Kim, Y. S.; Lim, Y. : KAI1/CD82 suppresses tumor invasion by MMP9 inactivation via TIMP1 up-regulation in the H1299 human lung carcinoma cell line. *Biochem. Biophys. Res. Commun.* 342: 655-661, 2006.