



Product Information Sheet

Polyclonal Anti- CD82 (Magnetic Bead Conjugate)

Catalogue No. PA1307-M

Lot No. 09H01

Ig type rabbit IgG

Size 100µg/vial

Specificity

Human, rat, mouse.

No cross reactivity with other proteins.

Recommended application

ImmunoPrecipitation (IP)

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.

Contents

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN₃.

Storage

Store at 4°C for frequent use.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified magnetic beads. It is useful for immunoprecipitation

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

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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.
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