

Datasheet: AHP1709

BATCH NUMBER 148676

Description:	RABBIT ANTI HUMAN CD82 (C-TERMINAL)
Specificity:	CD82 (C-TERMINAL)
Other names:	KAI1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin (1)	▪			2.5ug/ml
Western Blotting	▪			0.5 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to Human CD82 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A peptide corresponding to a 15 amino acid sequence close to the carboxy terminus of Human CD82.
External Database Links	<p>UniProt: P27701 Related reagents</p> <p>Entrez Gene: 3732 CD82 Related reagents</p>
Synonyms	KAI1, SAR2, ST6, TSPAN27
RRID	AB_2076397
Specificity	<p>Rabbit anti Human CD82 antibody recognises the carboxy-terminal region of human CD82, also known as KAI1, SAR2 and TSPAN27. CD82 is a ~30 kDa multi-pass transmembrane glycoprotein belonging to the tetraspanin (TM4SF) family.</p> <p>CD82 acts as a cancer metastasis suppressor protein (Feng et al.2015), while ubiquitously expressed at moderate to high levels in many normal tissues, its expression is down regulated during tumour progression. Loss of CD82 and p53 is correlated with poor prognosis for patients with prostate and other forms of cancer (Liu et al. 2006).</p> <p>CD82 interacts with CD234 (DARC). Tumour cells dislodged from the primary tumour and expressing CD82 interact with CD234 expressed on vascular cells, transmitting a senescent signal to the tumour cells (Tsai et al 2011). Tumor cells that have lost CD82 expression can proliferate and potentially give rise to metastases (Miranti 2009).</p> <p>Two isoforms of CD82 may be generated by alternative splicing. The c-terminal region is not affected and thus Rabbit anti Human CD82 antibody is expected to recognize both isoforms of human CD82 (UniProt: P27701).</p>
Histology Positive Control Tissue	Human colon tissue
Western Blotting	AHP1709 detects a band of approximately 33kDa in A549 cell lysate
References	1. Zuidscherwoude, M. <i>et al.</i> (2015) The tetraspanin web revisited by super-resolution microscopy. Sci Rep. 5: 12201.
Further Reading	1. Kauffman, E.C. <i>et al.</i> (2003) Metastasis suppression: the evolving role of metastasis

suppressor genes for regulating cancer cell growth at the secondary site. [J Urol. 169 \(3\): 1122-33.](#)

2. Dong, J.T. *et al.* (1995) KAI1, a metastasis suppressor gene for prostate cancer on human chromosome 11p11.2. [Science. 268 \(5212\): 884-6.](#)

3. Gil, M.L. *et al.* (1992) A member of the tetra spans transmembrane protein superfamily is recognized by a monoclonal antibody raised against an HLA class I-deficient, lymphokine-activated killer-susceptible, B lymphocyte line. Cloning and preliminary functional studies. [J Immunol. 148 \(9\): 2826-33.](#)

4. Gaugitsch, H.W. *et al.* (1991) A new superfamily of lymphoid and melanoma cell proteins with extensive homology to *Schistosoma mansoni* antigen Sm23. [Eur J Immunol. 21 \(2\): 377-83.](#)

Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1709 10040
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M364003:200529'

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