

## Datasheet: AHP1709

<b>Description:</b>	RABBIT ANTI HUMAN CD82 (C-TERMINAL)
<b>Specificity:</b>	CD82 (C-TERMINAL)
<b>Other names:</b>	KAI1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to Human CD82 were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	A peptide corresponding to a 15 amino acid sequence close to the carboxy terminus of Human CD82.

**External Database  
Links**

**UniProt:**

[P27701](#)   [Related reagents](#)

**Entrez Gene:**

[3732](#)   CD82   [Related reagents](#)

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**Synonyms**

KAI1, SAR2, ST6, TSPAN27

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**Specificity**

**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.

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](#)).

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](#)).

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](#)).

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**Histology Positive  
Control Tissue**

Human colon tissue

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**Western Blotting**

AHP1709 detects a band of approximately 33kDa in A549 cell lysate

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**References**

1. Zuidserwoude, M. *et al.* (2015) The tetraspanin web revisited by super-resolution microscopy. [Sci Rep. 5: 12201.](#)

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**Further Reading**

1. Kauffman, E.C. *et al.* (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.](#)

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**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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

### Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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

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