

Datasheet: AHP1178T

Description:	RABBIT ANTI HRK
Specificity:	HRK
Other names:	DP5
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			2 - 5ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to HRK were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	15 amino acid peptide from near the centre of human HRK (NP_003797).

**External Database
Links**

UniProt:

[O00198](#) [Related reagents](#)

Entrez Gene:

[8739](#) HRK [Related reagents](#)

Synonyms

BID3

Specificity

AHP1178 detects Harakiri (HRK), also known as Neuronal death protein DP5 or BH3-interacting domain-containing protein 3. HRK is a BH3 only protein of the Bcl-2 family, which promotes Bax dependent apoptosis. HRK regulates apoptosis through its interaction with the anti-apoptotic proteins Bcl-2 and Bcl-XL, and in conjunction to the mitochondrial pore forming protein p32. HRK is thought to have a specific role in initiating neuronal and haematopoietic cell apoptosis, in particular to growth factor deprivation.

Aberrant methylation of HRK is frequently detected in primary colorectal cancers. Despite its predicted molecular weight of ~18 kDa, HRK often migrates at ~12-15 kDa.

Western Blotting

AHP1178 detects a band of approximately 13kDa in mouse pancreas tissue lysate.

References

1. Nakamura M. *et al.* (2005) Frequent HRK inactivation associated with low apoptotic index in secondary glioblastomas. [Acta Neuropathol \(Berl\). 110: 402-410.](#)
2. Sanz, C. *et al.* (2001) Interleukin 3-dependent activation of DREAM is involved in transcriptional silencing of the apoptotic Hrk gene in hematopoietic progenitor cells. [EMBO J. 20: 2286-2292.](#)
3. Rizvi, F. *et al.* (2011) Mitochondrial dysfunction links ceramide activated HRK expression and cell death. [PLoS One. 6: e18137.](#)

Further Reading

1. Sunayama, J. *et al.* (2004) Physical and functional interaction between BH3-only protein Hrk and mitochondrial pore-forming protein p32. . [Cell Death Differ. 11: 771-781](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

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

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

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