

Datasheet: AHP2566

Description:	RABBIT ANTI CD117 (pTyr721)
Specificity:	CD117 (pTyr721)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

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
Western Blotting	■			1/500 - 1/2000

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.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to CD117 (pTyr721) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding tyrosine 721 of human CD117
External Database Links	UniProt: P10721 Related reagents Entrez Gene: 3815 KIT Related reagents
Specificity	Rabbit anti CD117 (pTyr721) antibody recognizes CD117, also known as proto-oncogene c-kit, mast/stem cell growth factor receptor Kit, Piebald trait protein and v-kit Hardy-Zuckerman 4 feline

sarcoma viral oncogene homolog, when phosphorylated at tyrosine 721. CD117 is a member of the tyrosine protein kinase family and is the receptor for stem cell factor (SCF).

Upon binding of SCF, CD117 activates a number of cell signaling pathways including MAP kinase, PI3K and JAK/STAT pathways ([Laing et al. 2013](#)).

SCF binding induces autophosphorylation of CD117 at tyrosine 568, tyrosine 570, tyrosine 721 and tyrosine 730. Phosphorylation of tyrosine 721 of CD117 is important for the binding and activation of PI-3 kinase p85 subunit alpha ([Lennartsson and Rönnstrand, 2012](#)).

Western Blotting	Due to the presence of phosphoproteins in milk, the use of milk based blocking reagents is not recommended. 1% BSA in PBS or TBS Tween should be used instead.
Further Reading	1. Liang, J. <i>et al.</i> (2013) The C-kit receptor-mediated signal transduction and tumor-related diseases Int J Biol Sci. 9 (5): 435-43. 2. Lennartsson, J. & Rönnstrand, L. (2012) Stem cell factor receptor/c-Kit: from basic science to clinical implications Physiol Rev. 92 (4): 1619-49.
Storage	Store at -20°C 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	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.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

Recommended Useful Reagents

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

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