

Datasheet: AHP1209

Description:	RABBIT ANTI HUMAN CD254
Specificity:	CD254
Other names:	sRANKL
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			0.5ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/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
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antisera to human CD254 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

Immunogen	Recombinant human CD254.
External Database Links	<p>UniProt: O14788 Related reagents</p> <p>Entrez Gene: 8600 TNFSF11 Related reagents</p>
Synonyms	OPGL, RANKL, TRANCE
Specificity	<p>Rabbit anti Human CD254 antibody recognizes the soluble form of human CD254, otherwise known as sRANKL, a ~20 kDa glycoprotein and member of the Tumour Necrosis Factor (TNF) superfamily, generated by proteolytic processing of the full-length CD254 membrane protein.</p> <p>CD254 is highly expressed by T lymphocytes and osteoblastic cells and plays a key role in the differentiation and activation of osteoclast precursors, acting as a ligand for both receptor activator of NF-KBeta (RANK) and the decoy receptor osteoprotegerin (OPG), which act as antagonists. Binding of CD254 to RANK is essential for the activation of osteoclastogenesis, stimulated by factors such as TNF-alpha, IL-1beta, IL-6 and IL-17, whereas binding to OPG neutralizes CD254, thereby inhibiting osteoclastogenesis.</p> <p>CD254 augments the dendritic cell (DC) stimulation of naïve T cell proliferation and may be involved in the regulation of DC-T cell interactions. CD254 is also involved in apoptosis, through activation of the antiapoptotic kinase AKT/PKB and the mTOR/S6K signalling pathway.</p>
Further Reading	1. Boyle, W.J. <i>et al.</i> (2003) Osteoclast differentiation and activation. Nature. 423 (6937): 337-42.
Storage	<p>Prior to reconstitution store at +4°C. After reconstitution store at -20°C.</p> <p>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.</p>
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.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

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

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

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

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