

Datasheet: AHP2182

Description:	GOAT ANTI HUMAN NOTCH 3 (C-TERMINAL)				
Specificity:	NOTCH 3 (C-TERMINAL)				
Other names:	Neurogenic locus notch homolog protein 3				
Format:	Purified				
Product Type:	Polyclonal Antibody				
lsotype:	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-					
	•		ecommer	idations, please visit <u>w</u>	<u>/WW.DIO-</u>	
	rad-antibodies.com/protocols. Yes No Not Determined Suggested Dilution					
	Flow Cytometry	Yes	No		Suggested Dilution	
	Immunohistology - Frozen			•		
	Immunohistology - Paraffin (1)	•			5ug/ml	
	ELISA				1:16000	
	Immunoprecipitation			•		
	Western Blotting			-		
	Functional Assays					
	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: Gorilla, Monkey, 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 Preparatio	n Antisera to human NOTCH3 (C-Terminal) were raised by repeated immunisation of goats with highly purified antigen. Purified IgG prepared from whole serum by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	A synthetic peptide sequence corresponding to amino acid residues from the C-Terminus of Human NOTCH3.
External Database Links	UniProt: Q9UM47 Related reagents Entrez Gene: 4854 NOTCH3 Related reagents
RRID	AB_10709281
Specificity	Goat anti Human Notch 3 antibody recognizes Notch 3, one of the four major transmembrane receptors (Notch 1-4) of the Notch signalling pathway, which is activated through binding to DSL domain-containing membrane-bound specific ligands. The Notch signalling pathway is an evolutionarily conserved pathway in multi-cellular organisms, which is vital for cell-cell communication, important during fundamental developmental and physiological processes, including regulation of cell fate decisions during neuronal, cardiac and endocrine development, stem cell haematopoiesis, thymic T-cell development, and both tumour progression and suppression.
	Ligation of Notch receptors by their specific ligands, Jagged1 (CD339), Jagged2, Delta-like protein 1 (DLL1), DLL3 and DLL4, on physically adjacent signal receiving cells, induces proteolysis of the receptors by ADAM-family metalloproteases and gamma- secretase complex, within the transmembrane domain, releasing the Notch intracellular domain (NICD) to translocate to the nucleus. Subsequent signal transduction then occurs through either the CSL-NICD-Mastermind complex cascade (canonical pathway), or NF-kappaB-NICD and CSL-NICD-Deltex complex signalling cascades (non-canonical pathway). The canonical pathway inhibits the differentiation of stem cells or progenitor cells, whilst the non-canonical pathway promotes differentiation.
	cells, and may play a role during CNS development. Notch 3 is also present on some thymocytes subsets and Treg cells, and Notch 3 signalling plays a role in mammalian T

cell lineage commitment, thymocyte development, and stem cell haematopoiesis. Studies

have implicated the over-expression of Notch 3 in T-cell leukaemia.

In humans, mutations in the Notch3 gene are responsible for the heritable vascular dementia known as CADASIL (cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephelopathy syndrome), predisposing to early onset stroke. Studies have implicated Notch 3 as crucial for ErbB2-negative breast cancer development, and possibly as a therapeutic target for these tumours, which at present lack effective molecular targets.

Histology Positive Control Tissue	Human liver
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 #10058 available at: 10058: <u>https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf</u>
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...)<u>HRP</u>

Recommended Negative Controls

HISTAR DETECTION SYSTEM (STAR3000A)

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A) 100x ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)

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	From March 15, 2021, we will no longer supply printed datasheets with our products. Look out for updates on how to access your digital version at bio-rad-antibodies.com 'M337802:181217'						

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