### Anti-Notch2 antibody ab118824

**Overview**

**Product name** Anti-Notch2 antibody  
**Description** Rabbit polyclonal to Notch2  
**Host species** Rabbit  
**Tested applications** Suitable for: WB, ELISA, IHC-P, ICC/IF  
**Species reactivity** Reacts with: Human  
**Predicted to work with:** Mouse, Rat

**Immunogen** Synthetic peptide corresponding to Human Notch2 aa 2396-2409 conjugated to Keyhole Limpet Haemocyanin (KLH) (Cysteine residue). Synthetic peptide: NAAERTPSHSGHLQ conjugated to KLH with a Cysteine residue linker, corresponding to amino acids 2396-2409 of Human Notch2 (NP_077719.2). 
Sequence: NAAERTPSHSGHLQ  
(Peptide available as ab1387)

**Positive control** Human kidney tissue.

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.</td>
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</table>
| Storage buffer | pH: 7.20  
Preservative: 0.1% Sodium azide  
Constituents: 0.27% Potassium phosphate, 0.88% Sodium chloride, 98% Whole serum |
| Purity | Whole antiserum |
| Clonality | Polyclonal |
| Isotype | IgG |

**Applications**

[Run BLAST with](#)  
[Run BLAST with](#)
Our Abpromise guarantee covers the use of ab118824 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ELISA</td>
<td>1/30000 - 1/90000.</td>
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<tr>
<td>IHC-P</td>
<td>1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<td>ICC/IF</td>
<td>Use at an assay dependent concentration.</td>
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**Target**

**Function**

Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs (By similarity). Involved in bone remodeling and homeostasis. In collaboration with RELA/p65 enhances NFATc1 promoter activity and positively regulates RANKL-induced osteoclast differentiation. Positively regulates self-renewal of liver cancer cells (PubMed:25985737).

**Tissue specificity**

Expressed in the brain, heart, kidney, lung, skeletal muscle and liver. Ubiquitously expressed in the embryo.

**Involvement in disease**

Alagille syndrome 2
Hajdu-Cheney syndrome

**Sequence similarities**

Belongs to the NOTCH family.
Contains 6 ANK repeats.
Contains 35 EGF-like domains.
Contains 3 LNR (Lin/Notch) repeats.

**Post-translational modifications**

Synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase in the trans-Golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin dependent gamma-secretase to release a notch-derived peptide containing the intracellular domain (NICD) from the membrane. Hydroxylated by HIF1AN.
Can be either O-glucosylated or O-xylosylated at Ser-613 by POGLUT1.

**Cellular localization**

Cell membrane and Nucleus. Cytoplasm. Following proteolytical processing NICD is translocated to the nucleus. Retained at the cytoplasm by C8orf4 (PubMed:25985737).

**Images**
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Notch2 antibody (ab118824)

ab118824, at a 1/500 dilution, staining Notch2 in formalin fixed, paraffin embedded Human kidney tissue followed by biotinylated secondary antibody, alkaline phosphatase-streptavidin and chromogen.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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