Anti-NOTCH 2
Rabbit Polyclonal Antibody

Catalog # N42-363R
Lot # Z2014-19

Cited Applications
WB, ELISA, IHC

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity
Recognizes the NOTCH 2 protein

Cross Reactivity
Human

Host/Isotype/Clone#
Rabbit, IgG

Immunogen
This whole rabbit serum was prepared by repeated immunizations with a synthetic peptide corresponding to amino acid residues of human NOTCH 2 located near the N-terminal sequence of the cleaved intracellular domain (NICD).

Formulation
0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
0.01% (w/v) Sodium Azide

Stability
1yr at –20°C from date of shipment

Scientific Background
The Anti-NOTCH 2 antibody recognizes NOTCH 2 that is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase (S1 cleavage) 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 (S2 cleavage) 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 (S3 cleavage) to release the intracellular domain (NICD) from the membrane.

References

Sample Data
Anti-NOTCH 2 was diluted 1:500 to detect NOTCH 2 in human liver tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

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