

Datasheet for ABIN7144761  
**anti-Asporin antibody (AA 33-380)**

## 3 Images

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## Overview

Quantity:	100 µg
Target:	Asporin (ASPN)
Binding Specificity:	AA 33-380
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Asporin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Immunogen:	Recombinant Human Asporin protein (33-380AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	>95%, Protein G purified

## Target Details

Target:	Asporin (ASPN)
Alternative Name:	ASPN ( <a href="#">ASPN Products</a> )
Background:	Background: Negatively regulates periodontal ligament (PDL) differentiation and mineralization to ensure that the PDL is not ossified and to maintain homeostasis of the tooth-supporting

## Target Details

system. Inhibits BMP2-induced cytodifferentiation of PDL cells by preventing its binding to BMPR1B/BMP type-1B receptor, resulting in inhibition of BMP-dependent activation of SMAD proteins (By similarity). Critical regulator of TGF-beta in articular cartilage and plays an essential role in cartilage homeostasis and osteoarthritis (OA) pathogenesis. Negatively regulates chondrogenesis in the articular cartilage by blocking the TGF-beta/receptor interaction on the cell surface and inhibiting the canonical TGF-beta/Smad signal. Binds calcium and plays a role in osteoblast-driven collagen biomineralization activity.

Aliases: ASPN antibody, ASPN protein antibody, ASPN\_HUMAN antibody, Asporin (LRR class 1) antibody, Asporin antibody, Asporin proteoglycan antibody, FLJ20129 antibody, LRR class 1 antibody, Periodontal ligament associated protein 1 antibody, Periodontal ligament-associated protein 1 antibody, PLAP 1 antibody, PLAP-1 antibody, PLAP1 antibody, SLRR 1C antibody, SLRR1C antibody, Small leucine rich protein 1C antibody

UniProt: [Q9BXN1](#)

## Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

## Handling

Format: Liquid

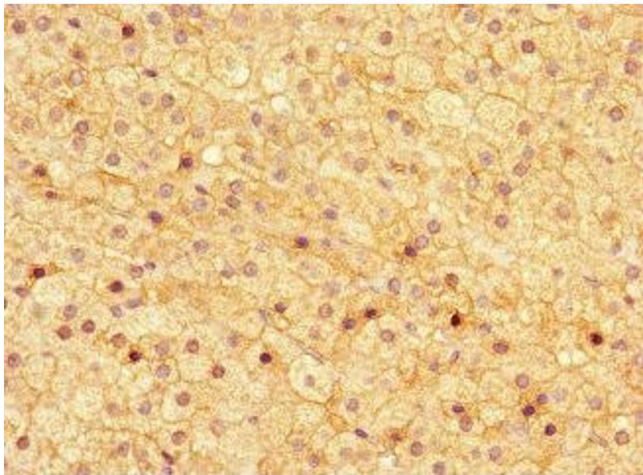
Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



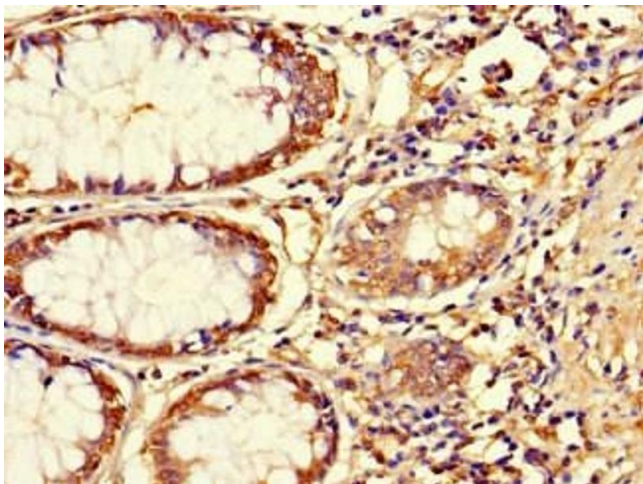
#### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human adrenal gland tissue using ABIN7144761 at dilution of 1:100



#### Western Blotting

**Image 2.** Western blot All lanes: ASPN antibody at 14 µg/mL  
Lane 1: Mouse heart tissue Lane 2: Mouse liver tissue Lane 3: HL60 whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 43 kDa  
Observed band size: 43 kDa



#### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human colon cancer using ABIN7144761 at dilution of 1:100