

PACO45682

Product Information

Size:

50ug

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:1000-1:5000,
IHC:1:20-1:200

Protein 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 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. 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.

Gene ID:

ASPN

Uniprot

Q9BXN1

Synonyms:

Asporin (Periodontal ligament-associated protein 1) (PLAP-1), ASPN, PLAP1 SLRR1C

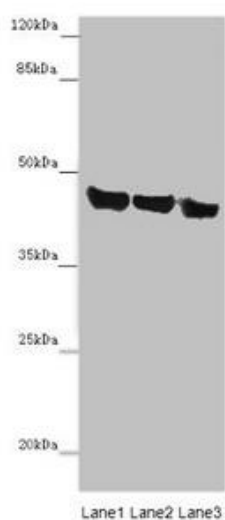
Immunogen:

Recombinant Human Asporin protein (33-380AA).

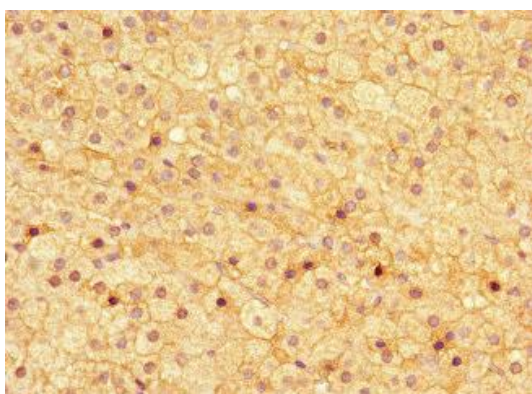
Storage:

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

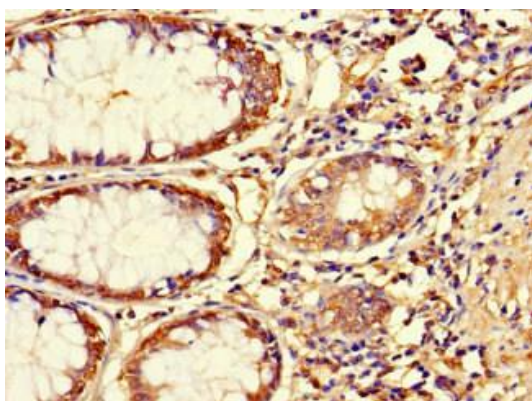
Product Images



Western blot. All lanes: ASPN antibody at 14 μ g/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 of paraffin-embedded human adrenal gland tissue using PACO45682 at dilution of 1:100.



Immunohistochemistry of paraffin-embedded human colon cancer tissue using PACO45682 at dilution of 1:100.