cementum attachment protein (3G9):
sc-53947

BACKGROUND
Cementum attachment protein, also referred to as CAP, is a collagenous protein that is expressed in the matrix of tooth cementum. This protein binds with high affinity to non-decalcified root surfaces, hydroxyapatite and fibronectin. It promotes attachment of mesenchymal cells and may function in cementogenesis. Cementum attachment protein is capable of recruiting putative cementoblastic populations on root slices in vitro, thereby implicating this protein in periodontal homeostasis and wound healing. Integrin αvβ3 is responsible for mediating the attachment to cementum attachment protein of the periodontal-derived cells, human gingival fibroblasts and human periodontal ligament fibroblasts.

CHROMOSOMAL LOCATION
Genetic locus: HACD1 (human) mapping to 10p12.33; Hacd1 (mouse) mapping to 2 A1.

SOURCE
cementum attachment protein (3G9) is a mouse monoclonal antibody raised against cementum attachment protein of bovine origin.

PRODUCT
Each vial contains 200 µg IgG κ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
cementum attachment protein (3G9) is available conjugated to agarose (sc-53947 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-53947 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-53947 PE), fluorescein (sc-53947 FITC), Alexa Fluor® 488 (sc-53947 AF488), Alexa Fluor® 546 (sc-53947 AF546), Alexa Fluor® 594 (sc-53947 AF594) or Alexa Fluor® 647 (sc-53947 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-53947 AF680) or Alexa Fluor® 790 (sc-53947 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

SELECT PRODUCT CITATIONS

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS
See our web site at www.scbt.com for detailed protocols and support products.