

Anti-CD49F [GoH3] Bulk Size Ab02878-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Rat IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: GoH3

Alternative Name(s) of Target: Integrin alpha-6; ITGA6; CD49 antigen-like family member F; VLA-6

UniProt Accession Number of Target Protein: P23229

Published Application(s): FC, IF, IHC

Published Species Reactivity: Dog, Human, Mouse

Immunogen: This antibody was raised by immunizing a BALB/c rat with amino acids 1242-1255 of the C-terminus of the Human c-erbB-2/HER-2/neu protein

Specificity: This antibody is specific for the mouse, human and dog version of the CD49F protein. CD49F is a receptor for laminin on platelets. Furthermore CD49F is present in oocytes and is involved in sperm-egg fusion.

Application Notes: To determine the influence of anti-CD49f and anti-CD29 monoclonal antibodies on mitotic activity of epithelial cells, cryo-sections of human cultured gingiva were stained for immunohistochemistry using the mouse version of this antibody. (Becker et al, 2002; pmid:12013557). To isolate pancreatic islet progenitor cells from foetal mice, a mouse pancreatic cell dispersion was used for flow cytometry using the mouse version of this antibody (Sugiyama et al, 2006; pmid:17190805). To present evidence that HPV binds specifically to laminin 5, cultured keratinocytes infected with VLPs from HPV-11, were stained using the mouse version of this antibody (Culp et al, 2006; pmid:16940506).

Antibody First Published in: Becker et al. Influence of anti-CD49f and anti-CD29 monoclonal antibodies on mitotic activity of epithelial cells (HaCaT) and gingival fibroblasts in vitro Eur J Oral Sci. 2002 Apr;110(2):137-43. [PMID:12013557](#)

Note on publication: Monoclonal antibodies against the VLA-6 laminin receptor subunit alpha6 interrupted interactions between epithelial cells (HaCaT cells) and their extracellular matrix and thus resulted in reduction of proliferation rates by more than 50%. The same effect was observed with anti alpha1-antibodies.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.