Product datasheet MON2032



Mouse anti-Alpha v Beta Integrin, clone BV3 (Monoclonal)

Clone no. BV3 MONOSAN

Product name Mouse anti-Alpha v Beta Integrin, clone BV3 (Monoclonal)

Host Mouse

Applications FC,ELISA,IF,IP,IHC-P

Species reactivity human, chicken, rat

Conjugate -

Immunogen Unknown or proprietery to MONOSAN and/or its suppliers

lsotype lgG1

Clonality Monoclonal

Clone number BV3

Size 1 ml

Concentration 100 ug/ ml

Format -

Storage buffer PBS with 0.1% BSA and 0.02% sodium azide

Storage until expiry date 2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

Product datasheet MON2032



Mouse anti-Alpha v Beta Integrin, clone BV3 (Monoclonal)

Clone no. BV3 MONOSAN

Additional info

The monoclonal antibody BV3 recognizes human alpha-V/beta-3 integrin present on human cells. Integrins are a superfamily of $\alpha \hat{l}^2$ heterodimeric cellsurface adhesion receptors found in many species. They are expressed on a variety of cells and mediate numerous physiological processes, including inflammation, migration, adhesion and proliferation. The Î²3 family consist of 2 members: αIIbî²3 and αvî²3, which mediate cell-cell and cell-ECM interactions and are important for cellular migration, regulation of gene expression, cell survival, adhesion and differentiation. All processes which are involved in tissue development, angiogenesis and thrombosis. Each subunit consist of an extracellular domain, a single transmembrane segment and a cytoplasmic tail. They connect to the actin cytoskeleton via adaptor proteins that bind their cytoplasmic tails. Cell matrix adhesions also act as signaling units by their capacity to organize the actin cytoskeleton and to accumulate various signaling intermediates. Integrin ανÎ²3 was originally identified as the vitronectin receptor. Nevertheless, other ligands include fibrinogen, fibronectin, laminin, thrombospondin, Von Willebrand factor, tenascin, osteopontin and several forms of collagen. The interactions of integrin αvÎ²3 to those ligands is mediated by the RGD (Arg-Gly-Asp) sequence motif present in these proteins. Deregulation of 123 integrins is involved in e.g. autoimmune diseases, cardiovascular disorders, transplant rejection and tumorigenesis. In contribution to the latter, integrin ανÎ²3 contribute by supporting growth of small (tumor) blood vessels thereby potentiating the metastatic potential. Overexpression of integrin ανÎ²3 has been demonstrated in various tumors and activated endothelium.

References

- 1. Newton; S et al. Eur | neurosc 2006; 24:819-828
- 2 Merkel, O et al Bioconj chem 2009, 20:1270-1280
- 3. Dare; E et al. Tissue engineering; 2009; 15:2285
- 4. -
- 5. -

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES