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| Catalog Number: | MO20007 | Host: | Mouse |
| Product Type: | Protein G purified IgG ₁ | Species Reactivity: | Human |
| Immunogen Sequence: | Prokaryotic recombinant protein expressed in pGEX corresponding to exon variant 3 of the CD44 molecule. Clone: VFF-327v3 | Format: | Liquid- Purified supernatant diluted in PBS with 1% BSA containing 15mM sodium azide. |
| Applications: | Immunohistochemistry-1:25-1:50 (Paraffin-embedded and frozen tissue) Trypsin digestion of paraffin sections may enhance staining in some cases. 60 minutes primary antibody incubation at 25° C Standard ABC technique. Western Blotting: 1:25-1:50 | | |
| Storage: | Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i> | | |

Application Notes

For frozen tissue acetone fixation is recommended.

Description/Data:

The CD44 molecule belongs to a family of cellular adhesion molecules found on a wide range of normal and malignant cells in epithelial, mesothelial and hemopoiesis tissues. CD44 is a single gene with 20 exons, of which 10 are normally expressed to encode the basic CD44 (H-CAM) molecule. The additional 10 exons (v1 to v10) are only expressed by alternative splicing of the nuclear RNA. The expression of specific cell adhesion molecule CD44 splice variants has been reported to be associated with metastasis in certain human malignancies, such as breast cancer. A complex pattern of CD44 variant expression in different tumors compared to the CD44 expression of the normal cell of origin has been reported (Fox SB et al., Cancer Research (53): 4539-4546, (1994)). High levels of expression were observed with the variant exons by breast carcinomas that arise from breast ductal epithelium which do not normally express CD44. Conversely, normal gastrointestinal epithelium were reported to express low levels of many of the CD44 variants and the derived colon cancers expressed low and variable levels of the variants. Respiratory epithelium which expressed variants at high levels in normal cells were reported to express the same variants at similar levels in lung carcinomas.

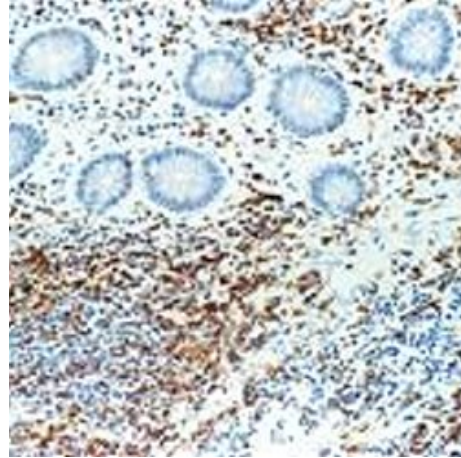


Image: CD44 variant 3 staining of paraffin-embedded Human squamous cell carcinoma, floor of the mouth. Note intense membrane staining of tumor cells.

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