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## Anti-Human Fibronectin Purified

**Catalog Number:** 14-9869

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information



**Contents:** Anti-Human Fibronectin Purified

**Catalog Number:** 14-9869

**Clone:** FN-3

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Mouse IgG1



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

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### Description

The FN-3 monoclonal antibody recognizes human fibronectin, a component of the extracellular matrix. This high molecular weight protein (almost 400 kDa) exists as an extracellular and a soluble plasma form. Fibronectin functions in cell adhesion and migration via integrins present on the interacting cell. Fibronectin also associates with collagen, actin and fibrins. In malignancies, fibronectin protein levels can be altered. In lung carcinomas, expression is decreased. The FN-3 antibody recognizes a determinant on human cellular but not plasma fibronectin; this recognition is not lost upon trypsin treatment. Furthermore, FN-3 antibody has been shown to crossreact to bovine fibronectin.

### Applications Reported

This FN-3 antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded (FFPE) tissue sections and immunoblotting.

### Applications Tested

This FN-3 antibody has been tested by immunohistochemistry on FFPE human placenta (with IHC Antigen Retrieval Solution – Low pH (cat. 00-4955)) and can be used at less than or equal to 10 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Cseh B, Fernandez-Sauze S, Grall D, Schaub S, Doma E, Van Obberghen-Schilling E. Autocrine fibronectin directs matrix assembly and crosstalk between cell-matrix and cell-cell adhesion in vascular endothelial cells. J Cell Sci. 2010 Nov 15;123 (Pt 22):3989-99. (**FN-3**, crossreactivity to bovine)

Keen J, Chang SE, Taylor-Papadimitriou J. Monoclonal antibodies that distinguish between human cellular and plasma fibronectin. Mol Biol Med. 1984 Feb;2(1):15-27.

Akiyama SK, Yamada KM, Hayashi M. The structure of fibronectin and its role in cellular adhesion. J Supramol Struct Cell Biochem. 1981;16(4):345-8.

### Related Products

00-4955 IHC Antigen Retrieval Solution – Low pH (10X)