

**Anti-Tetranectin (human)
Mouse monoclonal antibody**

Subclass: IgG2a/k

PRODUCT NO.

HYB 130-11

Clone: 5B7

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

ANTIGEN

Tetranectin (TN) is a serum and tissue protein, a C-type lectin, which binds to Ca⁺⁺. It is a homotrimer of monomers each with a mass of 20 kDa, plasma or serum concentrations of TN are found to be approximately 10 mg/l (1,2,4). In vitro, TN can bind to kringle 4 of plasminogen and enhance the activation of plasminogen to plasmin, catalyzed by tissue plasminogen activator in the presence of poly-D-lysine (3). TN is best known as a prognostic marker in ovarian cancer.

IMMUNOGEN

Tetranectin purified from human citrate plasma (3) and coupled to PPD. Boosted before fusion with recombinant tetranectin produced in E. coli and adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 130-11 is specific for amino acids 17-181 of human tetranectin monomer

EPI TOPE SPECIFICITY

Epitope specificity is shared HYB 130-13, as determined by inhibition ELISA (4).

REACTIVITY

HYB 130-11 works well as a detection antibody in combination with HYB 130-14 in sandwich ELISA. HYB 130-11 reacts poorly with tetranectin in sandwich ELISA in combination with a polyclonal antibody against tetranectin (eg. DAKO A0371). In western blotting HYB 130-11 reacts strongly with TN monomer. Especially good as detecting antibody in combination with HYB 130-14 in sandwich ELISA. Strong recognition of tetranectin in immunohistochemistry on both fresh frozen and paraffin-embedded tissues (4).

CULTURE MEDIUM

RPMI 1640 with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	4
Immunoblotting	Yes	4
Immunohistochemistry	Yes	4

REFERENCES

- Holtet TL, Graversen JH, Clemmensen I, Thogersen HC, Etzerodt M (1997) Tetranectin, a trimeric plasminogen binding C-type lectin. *Protein Sci* 6:1-5.
- Nielsen BB, Kastrup JS, Rasmussen H, Holtet TL, Graversen JH, Etzerodt M, Thogersen HC, Larsen IK (1997) Crystal structure of tetranectin, a trimeric plasminogen-binding protein with an alpha-helical coiled coil. *FEBS Lett.* 412:388-96.
- Clemmensen I, Petersen LC, Kluff C (1986) Purification and characterization of a novel, oligomeric, plasminogen kringle 4 binding protein from human plasma: Tetranectin. *Eur J Biochem* 156:327-33.
- Hogdall CK, Christiansen M, Christensen L, Yazova AK, Koch C, Clemmensen I, Norgaard-Pedersen B (1997) Monoclonal antibodies against human tetranectin, epitope characterization and use in immunohistochemistry. *Clin Chim Acta* 258:159-177.
- Hogdall CK (1998) Human tetranectin: methodological and clinical studies. *APMIS Suppl* 86:1-31.
- Westergaard UB, Andersen MH, Heegaard CW, Fedosov SN, Petersen TE (2003) Tetranectin binds hepatocyte growth factor and tissue-type plasminogen activator. *Eur J Biochem* 270:1850-1854.

CONDITIONS

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