

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

Subclass: IgG₁/k

PRODUCT NO.

HYB 130-14

Clone: 6F9

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 130-14 is specific for amino acids 17-181 of human tetranectin monomer

EPI TOPE SPECIFICITY

Epitopespecificity is shared or identical with HYB 130-10, is shared with HYB 130-11 and HYB 130-13 and is partly shared or different from HYB 130-12, as determined by inhibition ELISA (4).

REACTIVITY

HYB 130-14 reacts strongly with tetranectin. A strong reaction is seen in sandwich ELISA in combination with a polyclonal antibody against tetranectin (eg. DAKO A0371). HYB 130-14 works especially well as capture antibody in combination with HYB 130-11 in sandwich ELISA (4).

In western blotting HYB 130-14 reacts strongly with TN monomer and slightly with TN trimer. In fresh frozen tissues of ovarian cancer, HYB 130-14 shows no staining for TN and no staining of paraffin-embedded, microwave treated tissues.

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	4,5
Immunoblotting	Yes	4
Immunohistochemistry	No	4

REFERENCES

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- 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.
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- Thougaard AV, Hogdall CK, Kjaer SK, Blaakaer J, Jaliashvili I, Christiansen M (1998) Determination of serum tetranectin: technical and clinical evaluation of three sandwich immunoassays. *Clin Chim Acta* 276:19-34.

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