

## IHCAb™ Factor XIIIa mouse mAb (BGT170)

Cat #: B-IMW6873

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

### Background

This gene encodes the coagulation factor XIII A subunit. Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits have catalytic function, and the B subunits do not have enzymatic activity and may serve as plasma carrier molecules. Platelet factor XIII is comprised only of 2 A subunits, which are identical to those of plasma origin. Upon cleavage of the activation peptide by thrombin and in the presence of calcium ion, the plasma factor XIII dissociates its B subunits and yields the same active enzyme, factor XIIIa, as platelet factor XIII. This enzyme acts as a transglutaminase to catalyze the formation of gamma-glutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. It also crosslinks alpha-2-plasmin inhibitor

### Product Information

**Applications/Dilution:** IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500

**Isotype/Source:** Mouse, Monoclonal/IgG1, Kappa

**Specificity:** The antibody can specifically recognize human Factor XIIIa protein. In western blotting of A431 cell lysates, there shows a 100KDa band detected by the antibody.

**Subcellular Location:** Cytoplasm. Secreted . Secreted into the blood plasma. Cytoplasmic in most tissues, but also secreted in the blood plasma

**Expression:** Cytoplasmic

**Formulation:** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.12% sodium azide

**Storage:** Store at -15°C to -25°C

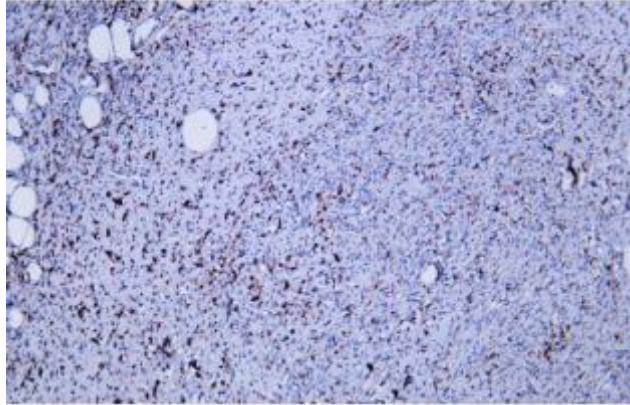


Fig.1. Human dermatofibrosarcoma protuberans tissue was stained with Anti-Factor XIIIa Antibody

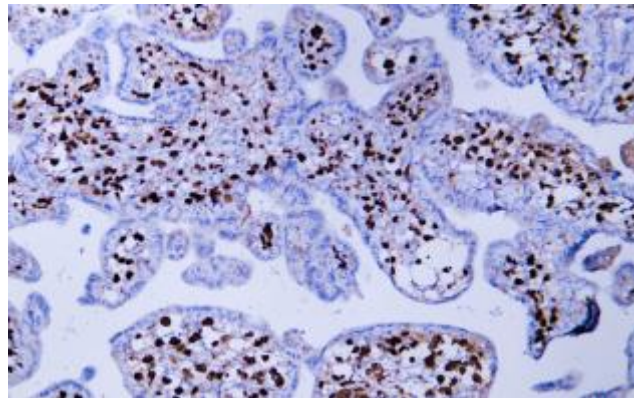


Fig.2. Human placenta tissue was stained with Anti-Factor XIIIa Antibody

**Note:**

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.