### Summary and Explanation:
This is a monoclonal antibody to the A-subunit of human coagulation Factor XIII. Studies have shown that it recognizes human Factor XIII A-chain in both reduced and non-reduced forms. It does not react with human Factor XIII B-chain or human Factor XII.

### Pretreatment Protocol:
- **Reveal:**
  - Pretreatment Solution (recommended): Block for 5 minutes with Biocare's Peroxidized 1.
- **Peroxide Block:**
  - Store at 2°C to 8°C. Do not use after the expiration date printed on the vial. If reagents are exposed to reagents or specimens come in contact with sensitive areas, wash with copious amounts of water.

### Staining Protocol Recommendations:
- **Peroxide Block:**
  - Block for 5 minutes with Biocare's Peroxidized 1.
- **Pretreatment Solution (recommended):**
  - Reveal
- **Pretreatment Protocol:**
  - Heat Retrieval Method: Retrieve sections under pressure using Biocare's Decloaking Chamber, followed by a wash in distilled water; alternatively, steam tissue sections for 45-60 minutes. Allow solution to cool for 10 minutes then wash in distilled water.
- **Protein Block (Optional):**
  - Incubate for 5-10 minutes at RT with Biocare's Background Punisher.
- **Primary Antibody:**
  - Incubate for 30 minutes at RT.
- **Probe:**
  - Incubate for 10 minutes at RT with a secondary probe.
- **Polymer:**
  - Incubate for 10 minutes at RT with a tertiary polymer.
- **Chromogen:**
  - Incubate for 5 minutes at RT with Biocare's DAB - OR - Incubate for 5-7 minutes at RT with Biocare's Warp Red.
- **Counterstain:**
  - Counterstain with hematoxylin. Rinse with deionized water. Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.

### Intended Use:
For Research Use Only. Not for use in diagnostic procedures.

### Limitations:
This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application for its use.

### Technical Note:
This antibody has been standardized with Biocare's MACH 4 detection system. It can also be used on an automated staining system and with other Biocare polymer detection kits. Use PBS buffer for washing steps.

### References:
3. Goldblum JR, Tuthill RJ. CD34 and factor-XIIIa immunoreactivity in dermatofibroma and dermatofibrosarcoma protubersans (3).