

## Product datasheet for **TA800295S**

### Factor XIIIa (F13A1) Mouse Monoclonal Antibody [Clone ID: OTI1E9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1E9
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human F13A1 (NP_000120) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	79.2 kDa
Gene Name:	coagulation factor XIII A chain
Database Link:	<a href="#">NP_000120</a> <a href="#">Entrez Gene 60327 Rat</a> <a href="#">Entrez Gene 74145 Mouse</a> <a href="#">Entrez Gene 2162 Human</a> <a href="#">P00488</a>



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**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, or fibronectin, to the alpha chains of fibrin. Factor XIII deficiency is classified into two categories: type I deficiency, characterized by the lack of both the A and B subunits; and type II deficiency, characterized by the lack of the A subunit alone. These defects can result in a lifelong bleeding tendency, defective wound healing, and habitual abortion. [provided by RefSeq]

**Synonyms:**

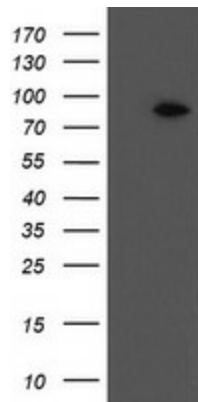
F13A

**Protein Families:**

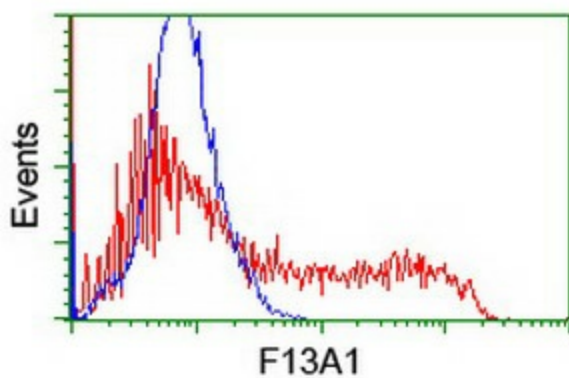
Druggable Genome, Secreted Protein

**Protein Pathways:**

Complement and coagulation cascades

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY F13A1 ([RC206464], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-F13A1. Positive lysates [LY400044] (100ug) and [LC400044] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either [RC206464] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-F13A1 antibody ([TA800295]), and then analyzed by flow cytometry.