

**Cleaved-Factor XIIIa (G39) rabbit pAb****Cat#: orb768066 (Manual)**

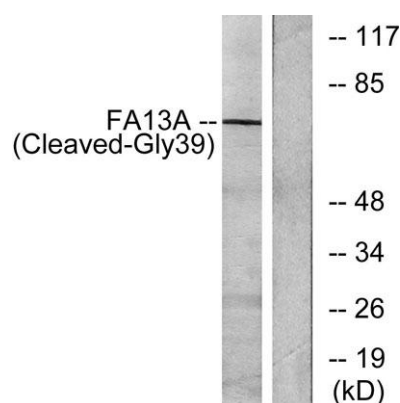
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<b>Product Name</b>	Cleaved-Factor XIIIa (G39) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse;
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human FA13A. AA range:20-69
<b>Specificity</b>	Cleaved-Factor XIIIa (G39) Polyclonal Antibody detects endogenous levels of fragment of activated Factor XIIIa protein resulting from cleavage adjacent to G39.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Coagulation factor XIII A chain
<b>Gene Name</b>	F13A1
<b>Cellular localization</b>	Cytoplasm. Secreted . Secreted into the blood plasma. Cytoplasmic in most tissues, but also secreted in the blood plasma.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using       epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	79kD
<b>Human Gene ID</b>	2162
<b>Human Swiss-Prot Number</b>	P00488
<b>Alternative Names</b>	F13A1; F13A; Coagulation factor XIII A chain; Coagulation factor XIIIa; Protein-glutamine gamma-glutamyltransferase A chain; Transglutaminase A chain

#### 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



**Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24h, using FA13A (Cleaved-Gly39) Antibody. The lane on the right is blocked with the synthesized peptide.**