



# Anti-F13A1 monoclonal antibody, clone 2D0 (CABT-ZC1144)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse Monoclonal Antibody to Human F13A1 molecule,
<b>Antigen Description</b>	F13A1 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.
<b>Target</b>	F13A1
<b>Immunogen</b>	Full length human recombinant protein of human F13A1 produced in HEK293T cell.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	2D0
<b>Conjugate</b>	Unconjugated

<b>Applications</b>	ELISA, LMNX
<b>Buffer</b>	Stored in PBS (pH 7.4) containing 0.05% sodium azide and up to 5% trehalose.
<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Shipped at 4 °C. Upon delivery store at -20 °C. Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.

## GENE INFORMATION

<b>Entrez Gene ID</b>	<a href="#">2162</a>
<b>UniProt ID</b>	<a href="#">P00488</a>