

Human Vitamin K epoxide Reductase Complex Subunit 1 (VKORC1) ELISA Kit | VKORC1 elisa kit

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CATALOG #
AAA330278

REACTIVITY
Human

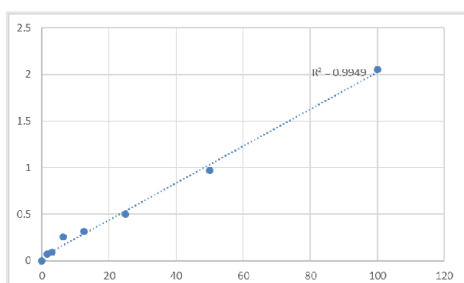
PRODUCT SYNONYMS

Vitamin K epoxide Reductase Complex Subunit 1 (VKORC1); Human Vitamin K epoxide Reductase Complex Subunit 1 (VKORC1) ELISA Kit; VKORC1; EDTP308; FLJ00289; IMAGE3455200; MGC2694; MST134; MST576; VKCFD2; VKOR; phyloquinone epoxide reductase; vitamin K dependent clotting factors deficiency 2; vitamin K1 epoxide reductase (warfarin-sensi; VKORC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Vitamin K epoxide reductase complex subunit 1 (VKORC1) ELISA Kit has high sensitivity and excellent specificity for detection of Human VKORC1. No significant cross-reactivity or interference between Human VKORC1 and analogues was observed.
Sequence Length	163
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Vitamin K epoxide reductase complex subunit 1 (VKORC1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for VKORC1 elisa kit	Description: This Human Vitamin K epoxide reductase complex subunit 1 (VKORC1) ELISA Kit employs a two-site sandwich ELISA to quantitate VKORC1 in samples. An antibody specific for VKORC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any VKORC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VKORC1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VKORC1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Vitamin K is essential for blood clotting but must be enzymatically activated. This enzymatically activated form of vitamin K is a reduced form required for the carboxylation of glutamic acid residues in some blood-clotting proteins. VKORC1 is responsible for reducing vitamin K 2,3-epoxide to the enzymatically activated form. Fatal bleeding can be caused by vitamin K deficiency and by the vitamin K antagonist warfarin, and it is the product of this gene that is sensitive to warfarin. In humans, mutations in this gene can be associated with deficiencies in vitamin-K-dependent clotting factors and, in humans and rats, with warfarin resistance. Two pseudogenes have been identified on chromosome 1 and the X chromosome. Two alternatively spliced transcripts encoding different isoforms have been described.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13124770
NCBI GeneID	79001
NCBI Accession #	NP_076869.1
NCBI GenBank Nucleotide #	NP_076869.1
UniProt Accession #	Q9BQB6
NCBI Official Full Name	vitamin K epoxide reductase complex subunit 1 isoform 1
NCBI Official Synonym Full Names	vitamin K epoxide reductase complex subunit 1
NCBI Official Symbol	VKORC1
NCBI Official Synonym Symbols	VKOR; MST134; MST576; VKCFD2; EDTP308
NCBI Protein Information	vitamin K epoxide reductase complex subunit 1
UniProt Protein Name	Vitamin K epoxide reductase complex subunit 1
UniProt Gene Name	VKORC1
UniProt Synonym Gene Names	VKOR
UniProt Entry Name	VKOR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.