

## Human Semaphorin-3E (SEMA3E) ELISA Kit

Catalog No: #EK7399



Package Size: #EK7399-1 48T #EK7399-2 96T

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## Description

Product Name	Human Semaphorin-3E (SEMA3E) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	KIAA0331; M-SEMAH; M-SemaK; SEMAH; coll-5; semaphorin 3E
Accession No.	O15041
Uniprot	O15041
GeneID	9723;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:1.25-20 ng/mL

Sensitivity:0.51 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SEMA3E in samples. An antibody specific for SEMA3E has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySEMA3E present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA3E 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 SEMA3E bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**SEMA3E encodes a class 4 semaphorin. This gene encodes a class 3 semaphorin. Multiple transcript variants encoding different isoforms have been found for this gene.The deduced 775-amino acid protein has a calculated molecular mass of about 95 kD. SEMA3E shares 87.4% identity with mouse Sema3e. RT-PCR detected highest expression in brain and prostate, followed by small intestine, thymus, and lung. Little to no expression was detected in other tissues examined.Sema3e is highly expressed in developing somites, where it acts as a repulsive cue for plexin-D1-expressing endothelial cells of adjacent intersomitic vessels. Sema3e-plexin-D1 signaling did not require neuropilins, which had been presumed to be obligate Sema3 coreceptors.

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Note: This product is for in vitro research use only