

Human FGFR2/CD332 ELISA Kit | FGFR2/CD332 elisa kit

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CATALOG #
AAA258392

REACTIVITY
Human

PRODUCT SYNONYMS

FGFR2/CD332; Human FGFR2/CD332 ELISA Kit; FGFR2 ELISA Kit; Human; fibroblast growth factor receptor 2; BBDS ELISA Kit; BEK ELISA Kit; BFR-1 ELISA Kit; CD332 ELISA Kit; CEK3 ELISA Kit; CFD1 ELISA Kit; ECT1 ELISA Kit; JWS ELISA Kit; K-SAM ELISA Kit; KGFR ELISA Kit; TK14 ELISA Kit; TK25 ELISA Kit; FGFR2/CD332 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The kit has been verified by high purity Human FGFR2/CD332 recombinant protein.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Recombinant protein
Detection Range	10.94-700pg/mL
Sensitivity	7.15pg/mL
Conjugation	HRP
Interference	Preparations of FGF2, FGF6, FGF7, FGF9, FGF17, FGF21 and LYN at 12ng/mL in a mid-range recombinant human CSTB control were assayed for interference. No significant interference was observed.
Materials Provided	96 well microplate coated with Capture Antibody - Detection Antibody conjugated to HRP - Standards - Wash Buffer Concentrate - Dilution Buffer Concentrate - Color Reagent A - Color Reagent B - Stop Solution

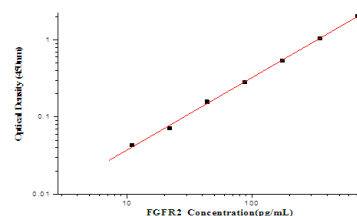
IMAGES

Recombinant human			
FGFR1	FGFR4	FGF2	FGF6
FGF7	FGF9	FGF17	FGF21
LYN	IL1	IL2	IL4
IL6	IL8	IL10	IL33
TIMP2	GM-CSF	SCF	PDGF
VEGF	TNF- α	IFN- γ	MDP-1 β
TIMP1	TIMP2	GM-CSF	SCF
Recombinant mouse			
FGFR2			

Application Data

This assay recognizes recombinant human FGFR2. The factors listed above were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed. Preparations of FGF2, FGF6, FGF7, FGF9, FGF17, FGF21 and LYN at 12ng/mL in a mid-range recombinant human CSTB control were assayed for interference. No significant interference was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
10.94	0.043
21.88	0.071
43.75	0.157
87.5	0.281
175	0.536
350	1.046
700	2.043



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for FGFR2/CD332 elisa kit	This FGFR2 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human FGFR2 protein in Recombinant protein. It contains recombinant Human FGFR2, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: FGFR2, also known as CD332, belongs to the fibroblast growth factor receptor subfamily where amino acid sequence is highly conserved between members and throughout evolution. FGFR2 acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation, migration and apoptosis, and in the regulation of embryonic development. It is required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. FGFR2 plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. It also promotes cell proliferation in keratinocytes and imature osteoblasts, but promotes apoptosis in differentiated osteoblasts. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal CD332 maturation, internalization and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1. Defects in CD3322 are the cause of Crouzon syndrome, Jackson-Weiss syndrome, Apert syndrome, Pfeiffer syndrome, Beare-Stevenson cutis gyrata syndrome, familial scaphocephaly syndrome, lacrimo-auriculo-dento-digital syndrome and Antley-Bixler syndrome without genital anomalies or disordered steroidogenesis.
References	Marie PJ, et al. (2003) Regulation of human cranial osteoblast phenotype by FGF-2, FGFR-2 and BMP-2 signaling. <i>Histol.</i> 17(3):877-85. Park WJ, et al. (1996) Novel FGFR2 mutations in Crouzon and Jackson-Weiss syndromes show allelic heterogeneity and phenotypic variability. <i>Hum Mol Genet.</i> 4(7):1229-33. Orr-Urtreger A, et al. (1993) Developmental localization of the splicing alternatives of fibroblast growth factor receptor-2 (FGFR2). <i>Dev Biol.</i> 158(2):475-86.

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/fgfr2-cd332/258392>