Kremen-2 Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P700773
Synonyms:	KRM2; KREMEN2; Kremen-2; Dickkopf receptor 2
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_005591068.2 (G26-A364)
Gene ID:	102136316
Molecular Weight:	50-65 kDa

PROPERTIES

Biological Activity	Immobilized Cynomolgus Kremen-2, His Tag at 0.2μg/ml (100μl/well) on the plate. Dose response curve for Anti-Kremen-2 Antibody, hFc Tag with the EC_{50} of 7.1ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Kremen-2, functioning as a receptor for Dickkopf proteins, operates in collaboration with DKK1/2 to restrain Wnt/beta-catenin signaling by facilitating the endocytosis of Wnt receptors LRP5 and LRP6. This regulatory role extends to limb development, where Kremen-2 acts to attenuate Wnt signaling, ensuring the normal patterning of limbs and exerting a negative influence on bone formation. Additionally, Kremen-2 forms a ternary complex with DKK1 and LRP6, emphasizing its involvement in intricate molecular interactions crucial for modulating key signaling pathways. The interaction with ERLEC1 further underscores the multifaceted regulatory functions of Kremen-2 in cellular processes.

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