

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Dkk-3 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human (rh) Dkk-3 is observed and less than 1% cross-reactivity with rhDkk-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Dkk-3 Met1-Ile349 Accession # Q9QUN9
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Dkk-3 (Dickkopf-related protein 3; also REIC) is a 65-70 kDa secreted glycoprotein member of the Dickkopf family of molecules. It is expressed by multiple cell types, including neurons, endothelial cells, keratinocytes and zona glomerulosa cells of the adrenal. Dkk-3 is reported to be a positive regulator of Wnt signaling. It is suggested to bind exclusively to Wnt-inhibiting Kremen proteins, thereby blocking their expression on the cell surface. This makes LRP available for Wnt binding and signaling. Dkk-3 is also reported to induce the development of DC from monocytes. Mature mouse Dkk-3 is 328 amino acids (aa) in length (aa 22-349). It contains one coiled-coil region (aa 39-84), two consecutive Dkk-type Cys-rich regions (aa 147-195 and 208-284), and one phosphoserine site at Ser298. Over aa 22-349, mouse shares 83% and 92% aa identity with human and rat Dkk-3, respectively.

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