

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TFCP2L1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TFCP2L1 Met1-Lys180 Accession # Q9NZI6
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

TFCP2L1 (Transcription factor CP2-like protein # 1; also LBP-9) is a 54 kDa (predicted) member of the CP2 subfamily, grh/CP2 family of proteins. It is expressed in placental syncytiotrophoblast cells, and regulates the production of CYP11A1/P450_{scc}. P450_{scc} is a cholesterol cleavage enzyme that generates pregnenolone, a necessary intermediate in the formation of progesterone. TFCP2L1 both positively and negatively regulates P450_{scc} synthesis through homodimerization and heterodimerization with LBP-1b. Human TFCP2L1 is 479 amino acids (aa) in length. It contains a transcriptional repressor region (aa 100-200) and a dimerization domain (aa 300-479). There is one splice variant that shows a deletion of aa 400-464. Human TFCP2L1 is 73% aa identical to human TFCP2, and 93% aa identical to mouse CRTR-1, a closely related molecule that may not represent the actual mouse ortholog to TFCP2L1.

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