

Human TFCP2L1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5726

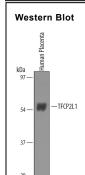
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TFCP2L1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human TFCP2L1 Met1-Lys180 Accession # Q9NZI6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



DDEDADATION AND STORAGE

Detection of Human TFCP2L1 by Western Blot. Western blot shows lysates of human placental tissue. PV/DF membrane was probed with $1\,\mu\text{g/mL}$ of Goat Anti-Human TFCP2L1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5726) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for TFCP2L1 at approximately 54 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE			
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 synctiotrophoblast cells, and regulates the production of CYP11A1/P450scc. P450scc is a cholesterol cleavage enzyme that generates pregnenolone, a necessary intermediate in the formation of progesterone. TFCP2L1 both positively and negatively regulates P450scc 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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