Human CD96 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6199

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD96 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant mouse CD96 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD96 Lys25-Asp501 Accession # NP_005807
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.

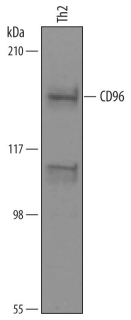
APPLICATIONS

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

Western Blot



Detection of Human CD96 by Western Blot. Western blot shows lysates of human Th2 cells. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human CD96 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6199) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CD96 at approximately 160 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

CD96 (also Tactile) is a 160 kDa member of the Ig-Superfamily. It is expressed on $CD4^+$ and $CD8^+$ T cells, plus NK cells and select B cells. Human CD96 binds to CD155 and presumably participates in NK cell killing of CD155-expressing target cells. Mature human CD96 is a 564 amino acid (aa), type I transmembrane glycoprotein. It contains a 498 aa extracellular region (aa 22-519) that contains three Ig-like domains. The two N-terminal domains are V-type (aa 38-238), while the distal domain is a C-type structure (aa 269-375). There is one isoform that shows a deletion of aa 183-192. This deletion converts the second V-type domain into an I-like domain, and generates the most common form of CD96. An additional isoform shows the same deletion coupled to a nine aa substitution for aa 410-585. Over aa 1-536, human CD96 shares 59% aa identity with mouse CD96.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449