

Human MESDC2 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5577

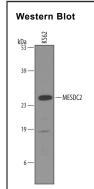
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human MESDC2 in direct ELISAs and Western blots. In direct ELISAs, approximately 35% cross-reactivity with recombinant mouse MESDC2 is observed.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant human MESDC2 Ala34-Leu234 Accession # Q14696	
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 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
Immunohistochemistry	5-15 μg/mL	Perfusion fixed paraffin-embedded sections of mouse testis

DATA



Detection of Human MESDC2 by Western Blot.

Western blot shows lysates of K562 human chronic myelogenous leukemia cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human MESDC2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5577) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for MESDC2 at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
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	
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
FREFARATION AND STORAGE		

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 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

Mesoderm development candidate gene 2 (MESDC2), also known as Boca in *drosophila*, is a 26 kDa protein (predicted) that is required for formation of the primitive streak and mesoderm during embryogenesis. MESDC2 binds to the Wnt co-receptors LRP5 and LRP6 in the endoplasmic reticulum and is required for their proper folding and cell surface expression. Within aa 34-234, human MESDC2 shares 87% aa sequence identity with mouse and rat MESDC2, respectively.

