

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse ESGP in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse ESGP Leu24-Lys84 Accession # Q2Q5T5
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.

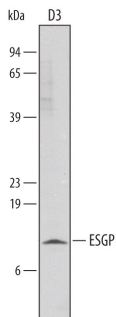
APPLICATIONS

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	0.1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

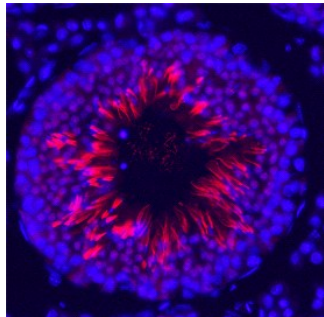
DATA

Western Blot



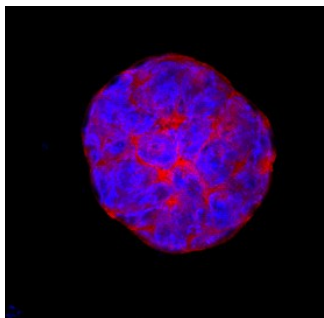
Detection of Mouse ESGP by Western Blot. Western blot shows lysates of D3 mouse embryonic stem cell line. PVDF membrane was probed with 0.1 µg/mL of Sheep Anti-Mouse ESGP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4580) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ESGP at approximately 9 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



ESGP in Mouse Testis. ESGP was detected in perfusion fixed frozen sections of mouse testis using Sheep Anti-Mouse ESGP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4580) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Northern-Lights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to late spermatids. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

Immunocytochemistry



ESGP in D3 Mouse Cell Line. ESGP was detected in immersion fixed D3 mouse embryonic stem cell line using Sheep Anti-Mouse ESGP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4580) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and cell secretion. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

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. <ul style="list-style-type: none"> • 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

ESGP (ES cell and germ cell-specific protein) is a presumably secreted polypeptide that belongs to no known protein family. It is expressed specifically in pluripotential cell types, and does not appear to be involved in differentiation. Mouse ESGP precursor is 84 amino acids (aa) in length. It contains a 25 aa signal sequence with a 59 aa mature segment. There are no N-linked glycosylation sites. One potential 108 aa variant shows an alternate start site 24 aa upstream of the standard start site.