

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DPPA5/ESG1 in direct ELISAs and Western blots. In Western blots, approximately 40% cross-reactivity with recombinant mouse DPPA5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DPPA5/ESG1 Met1-Lys116 Accession # NP_001020461
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	0.1 µg/mL	Recombinant Human DPPA5/ESG1
Immunocytochemistry	5-15 µg/mL	Immersion fixed NTera-2 human testicular embryonic carcinoma cell line

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

DPPA5, also known as embryonic stem cell-specific gene 1 (ESG1), is a K homology RNA-binding (KH) domain containing protein that is expressed only in early embryos, germ cells and embryonic stem cells. It may be useful as a marker of pluripotent stem cells. Human DPPA5 shares approximately 66% and 74% amino acid sequence homology with mouse and rat DPPA5, respectively.