

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse DPPA4 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 5% cross-reactivity with recombinant human DPPA4 and recombinant mouse DPPA5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse DPPA4 Asn125-Gly296 Accession # Q8CCG4
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	Recombinant Mouse DPPA4
Immunocytochemistry	5-15 µg/mL	Immersion fixed D3 mouse embryonic stem 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

DPPA4 is a 33 kDa molecule that is expressed specifically in the early embryo, uncommitted cells of the germ line, and embryonic stem cells and is used as a marker of pluripotent cells. Mouse DPPA4 is 296 amino acids in length and contains an SAP (SAF-A/B, ACINUS, PIAS) putative DNA-binding domain. Two potential isoforms exist with deletions of amino acids 104-120 and 69-120, respectively. In the region used as an immunogen, mouse DPPA4 shows 57% amino acid sequence identity with human and 87% identity with rat DPPA4 proteins.