

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse DPPA4 in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant human DPPA4 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse DPPA4 Asn125-Gly296 Accession # Q8CCG4
<b>Formulation</b>	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.

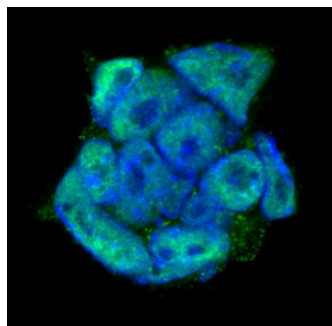
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Mouse DPPA4
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below

## DATA

### Immunocytochemistry



**DPPA4 in D3 Mouse Cell Line.** DPPA4 was detected in immersion fixed D3 mouse embryonic stem cell line using Goat Anti-Mouse DPPA4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3730) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 493-conjugated Anti-Goat IgG Secondary Antibody (green; Catalog # NL003) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.