

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DPPA2 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DPPA2 Ser2-Thr174 Accession # Q7Z7J5
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

DPPA2 (Developmental pluripotency associated 2; also ESCA, CT100 and PESCRG1) is a 38-39 kDa member of both the DPPA and cancer-testis family of proteins. It is found in pluripotent stem cells in a pattern that parallels that of Oct4, and likely contributes to formation of the ICM, plus the maintenance of cells in an undifferentiated state. DPPA2 is also found in spermatocytes and select tumor types. Human DPPA2 is 298 amino acids (aa) in length. It contains one DNA-binding SAP domain that is involved in chromosomal organization (aa 92-126). One potential isoform variant has been reported that shows a deletion of aa 61-71. Over aa 2-174, human DPPA2 shares only 36% aa identity with mouse DPPA2.

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