Data Sheet (Cat.No.TMAY-03748)

TargetMol

Anti-HE4 Antibody (4P63)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Rat
Conjugation:	Unconjugated
Clone:	4P63
Purification:	Protein A

Applications

Verified Activity:	1. Immunochemical staining of rat WFDC2 in rat lung with rabbit monoclonal antibody (1:300, formalin-fixed paraffin embedded sections). 2. Immunochemical staining of rat WFDC2 in rat ovary with rabbit monoclonal antibody (1:30, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Rat HE4 / WFDC2 / WAP5
Antigen Species:	Rat
Synonyms:	WAP four-disulfide core domain 2
Biology Area:	Serine Proteases and Regulators

Research Background

WAP four-disulfide core domain protein 2, also known as Epididymal secretory protein E4, Major epididymis-specific protein E4, Putative protease inhibitor WAP5, WFDC2 and HE4, is a secreted protein that contains two WAP domains. WFDC2 / HE4 is a member of a family of stable 4-disulfide core proteins that are secreted at high levels. It is expressed in a number of normal tissues, including male reproductive system, regions of the respiratory tract and nasopharynx. It is highly expressed in a number of tumors cells lines, such ovarian, colon, breast, lung and renal cells lines. Initially described as being exclusively transcribed in the epididymis. WFDC2 may be a component of the innate immune defences of the lung, nasal and oral cavities and suggest that WFDC2 functions in concert with related WAP domain containing proteins in epithelial host defence. WFDC2 re-expression in lung carcinomas may prove to be associated with tumour type and should be studied in further detail. Mammary gland expression of tammar WFDC2 during the course of lactation showed WFDC2 was elevated during pregnancy, reduced in early lactation and absent in mid-late lactation. WFDC2 / HE4 can undergo a complex series of alternative splicing events that can potentially yield five distinct WAP domain containing protein isoforms.

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