

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TTF-1/NKX2-1 in direct ELISAs.
Source	Monoclonal Rabbit IgG Clone # 2054E
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TTF-1/NKX2-1 Ala40-Pro111 Accession # P43699
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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

NK2 homeobox 1 (NKX2-1), also known as thyroid transcription factor 1 (TTF-1), is a 371 aminoacids (aa) protein encoded by the NKX2-1 gene. Expression of NKX2-1 transcription factor is the earliest indication of the establishment of respiratory progenitors as well as thyroid epithelium in the ventral foregut endoderm. NKX2-1 is critical for the expression of many pulmonary specific genes, including surfactant proteins SP-A, -B, and -C, as well as thyroid specific genes that are important in the maintenance of the thyroid differentiation phenotype.

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