

Endodermal Lineage Marker Antibody Sampler Kit

Cat# AK0150

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Two endodermal lineages develop during mammalian embryogenesis, the primitive endoderm of the blastocyst stage embryo and the definitive endoderm at gastrulation. The primitive endoderm gives rise to extra-embryonic lineages encompassing the visceral and the parietal endoderm. The definitive endoderm contributes to the respiratory and gastrointestinal tracts by forming the epithelial lining of the trachea, esophagus, lungs, stomach and intestines, and is a major component of many glands, including thyroid, thymus, pancreas and liver. Understanding molecular mechanisms that regulate early endodermal fates is seminal for the advance of stem cell research as they connect the transition from pluripotency to endoderm specification during mammalian development and contribute to the generation of clinically relevant cell types. FoxA2/HNF3 β is a transcription factor essential for development of the endoderm and midline structures in mouse embryos. EOMES acts during gastrulation to promote the specification of the definitive endoderm. Markers of hepatic differentiation in the endoderm include expression of α -fetoprotein (AFP) and N-cadherin. HNF4 α is involved in the differentiation of the visceral endoderm. GATA-6 lies upstream of HNF4 in a transcriptional cascade that regulates differentiation of the visceral endoderm and is also required for the establishment of the endodermally derived bronchial epithelium. Sall4 is required for the formation of the primitive endoderm from inner cell mass. It has been reported that extra-embryonic stem cell lines cannot be formed in Sall4-deficient blastocysts. PDGF receptor α is expressed in primitive endoderm derivatives throughout embryogenesis.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340710	AFP Polyclonal Antibody	20 μ L	WB, ELISA	Human	Rabbit
A340508	EOMES Polyclonal Antibody	20 μ L	WB, ELISA	Human, Mouse	Rabbit
A340152	FOXA2 Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340550	HNF-4 α Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340602	N-cadherin Polyclonal Antibody	20 μ L	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit

A340626	PDGFR- α Polyclonal Antibody	20 μ L	WB, IHC, IF, ELISA	Human, Mouse, Rat	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120 μ L	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.