

Mouse anti-Human HEG1 Monoclonal Antibody | anti-HEG1 antibody

HEG1 (SKM9-2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59372	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

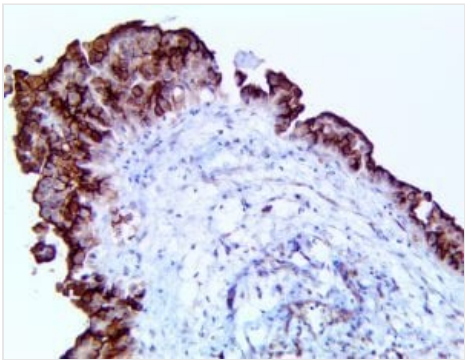
HEG1; Monoclonal Antibody; HEG1 (SKM9-2); heg1; heg 1; heg-1; anti-heg1; anti-heg 1; anti-heg-1; Sialylated protein HEG homolog 1; Heart development protein with EGF like domains 1; HEG; HEG homolog 1 zebrafish; Protein HEG homolog 1; anti-HEG1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	SKM9-2
Form/Format	HEG1 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH7.5, containing BSA and sodium azide as a preservative
Applicable Applications for anti-HEG1 antibody	IHC (Immunohistochemistry)
Immunogen	893-SKSPSLVSLPT-903 of the human HEG1 protein.
Control	Breast, Fallopian Tube, Colon, Prostate, Testis, Transitional Cell Carcinoma, Papillary Thyroid Carcinoma, Colon Adenocarcinoma
Localization	Cytoplasmic
Precautions	1. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent. 2. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents. 3. Dispose of unused solution with copious amounts of water. 4. Do not ingest reagent. If reagent is ingested, seek medical advice immediately. 5. Avoid contact with eyes. If contact occurs, flush with large quantities of water. 6. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar). 7. For additional safety information refer to Safety Data Sheet for this product. 8. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and AMDL" (see References in this document).
Mounting Protocols	For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter or organic solvent based resin such as PermaMounter.
Product Limitations	Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls.
Preparation and Storage	Store at 2-8°C (Control Slides: Store at 20-25°C)

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP
Peroxidase/AP Blocker	5 min.	5 min.	5 min.
Primary Antibody	30-60 min.	30-60 min.	30-60 min.
1st Step Detection	10 min.	30-45 min.	15 min.
2nd Step Detection	10 min.	Not Applicable	15 min.
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.
Counterstain / Coverslip	Varies	Varies	Varies

IHC (Immunohistochemistry)
Abbreviated Immunohistochemical Protocol



IHC (Immunohistochemistry)
HEG1 Antibody Immunohistochemistry on an FFPE Mesothelioma Tissue

Antibody Type	Dilution	Volume/Qty
Prediluted	Ready-To-Use	3.0 ml
Prediluted	Ready-To-Use	7.0 ml
Prediluted	Ready-To-Use	15.0 ml
Concentrated	1:25-1:100	0.1 ml
Concentrated	1:25-1:100	0.5 ml
Concentrated	1:25-1:100	1.0 ml
Control Slides		5

Dilution Info

ADDITIONAL INFORMATION

Related Product Information for anti-HEG1 antibody

Intended Use: This antibody is intended for use in Immunohistochemical applications on formallin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections, and cell preparations.

Sialylated protein HEG homolog 1 or Heart development protein with EGF like domains 1 (HEG1) is a novel calcium binding receptor protein involved in the Cerebral Cavernous Malformations (CCM) pathway and plays a regulatory role in heart and vessel formation by stabilizing endothelial cell junctions. HEG1 is a heavily glycosylated protein that participates in endothelial cell associations that develop the vascular system, and therefore plays a role in angiogenesis and the microenvironment of cellular adhesion.

The exact role of HEG1 in hepatocellular carcinoma is unclear, however, studies have shown HEG1 antibody expression indicates poor prognosis and plays important roles in hepatocellular carcinoma invasion, metastasis, and epithelial mesenchymal transition by activating Wnt/beta-catenin signaling. HEG1 mucin-like membrane protein has also been found to be a sensitive and specific biomarker for malignant mesothelioma in pleural (lung) and peritoneal (abdominal) membranes, and several other rare locations, where it supports the survival and proliferation of mesothelioma cells. HEG1 is potentially a useful prognostic biomarker and therapeutic target for malignant mesothelioma and hepatocellular, thyroid, and ovarian carcinomas.

HEG1 antibody has been found to be a highly specific and sensitive marker of epithelioid Malignant Mesothelioma and offers sensitivity comparable to conventional markers for Epithelioid Mesotheliomas, but provides considerably better specificity, such that the identification of epithelioid mesothelioma versus NSCLC and potentially could be confirmed with a combination of HEG1 antibody and a suitable broad spectrum carcinoma marker such as Claudin-4.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.