

Anti-Human ERG Mouse Monoclonal Antibody

Clone: UMAB77 **REF** RU00044

Intended use

Anti-human ERG Mouse Monoclonal Primary Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

Background

ERG is a member of the erythroblast transformation-specific (ETS) family of transcription factors. All members of this family are key regulators of embryonic development, cell proliferation, differentiation, angiogenesis, inflammation, and apoptosis. The expression is mainly in the nucleus. The protein contains an ETS DNA-binding domain and a PNT (pointed) domain which is implicated in the self-association of chimeric oncoproteins. ERG is required for platelet adhesion to the subendothelium, inducing vascular cell remodeling. It also regulates hematopoiesis, the differentiation and maturation of megakaryocytic cells. The ERG gene is involved in chromosomal translocations, resulting in different fusion gene products, such as TMPSSR2-ERG and NDRG1-ERG in prostate cancer, EWS-ERG in Ewing's sarcoma and FUS-ERG in acute myeloid leukemia. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.

Alternative names: transcriptional regulator ERG, p55, erg-3

Reagent provided

Anti-human ERG Mouse Monoclonal Antibody (Clone: UMAB77) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1. The total protein concentration is 0.6 ± 0.05 mg/mL.

For Immunohistochemistry the antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissues, and this can be dependent upon the detection system used. These are guidelines only, and the optimal dilutions should be determined by the individual laboratory.

Immunogen

Full length recombinant protein of human ERG (NP_891548) was produced in HEK293T cell.

Specificity

The specificity of the anti-human ERG Mouse Monoclonal Primary Antibody was established on normal human spleen and pancreas. The anti-ERG presented no staining on formalin fixed human pancreas and positive staining on normal human spleen using immunohistochemical (IHC) test methods.

Precautions

1. This product contains sodium azide (NaN_3), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, NaN_3 may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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