Human FGF basic/FGF2/bFGF Biotinylated Antibody

Monoclonal Mouse IgG_{2A} Clone # 10043

Catalog Number: BAM233

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FGF basic/FGF2/bFGF in ELISAs. In ELISAs, this antibody also recognizes bovine FGF basic but not bovine FGF acidic, recombinant human (rh) FGF acidic, rhFGF-4, rhFGF-6, or rhFGF-7.
Source	Monoclonal Mouse IgG_{2A} Clone # 10043
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human FGF basic/FGF2/bFGF
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.*

Human FGF basic/FGF2/bFGF Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human FGF basic/FGF2/bFGF Antibody (Catalog # MAB233)
ELISA Capture	2-8 µg/mL	Human FGF basic/FGF2/bFGF Antibody (Catalog # MAB233R)
ELISA Detection	0.5-2.0 µg/mL	Human FGF basic/FGF2/bFGF Biotinylated Antibody (Catalog # BAM233)
Standard		Recombinant Human FGF basic/FGF2/bFGF (146 aa) (Catalog # 233-FB)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FGF basic, also known as FGF-2 and HBGF-2, is a member of the FGF family of mitogenic proteins. FGF basic is widely expressed and affects diverse aspects of embryonic development by regulating cell proliferation, differentiation, and survival. Various N-terminal extensions affect localization of FGF basic in cellular compartments but do not affect biological activity. Binding of FGF to heparin or cell surface heparan sulfate proteoglycans is necessary for binding of FGF to high affinity FGF receptors. Mature human FGF basic shares greater than 96% aa sequence identity with bovine, mouse, and rat FGF basic.

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