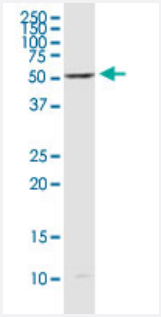
RUNX1 monoclonal antibody (M05), clone 4E7

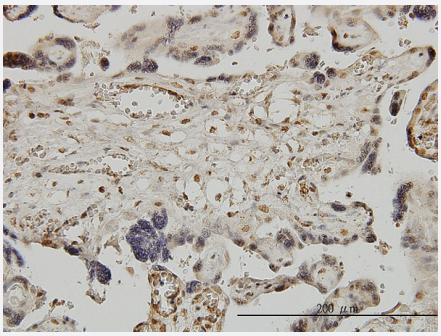
Catalog # H00000861-M05 Size 100 ug

Applications



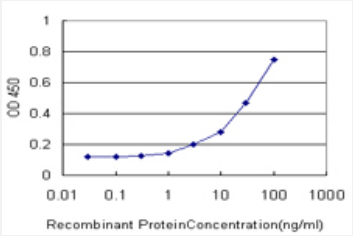
Western Blot (Cell lysate)

RUNX1 monoclonal antibody (M05), clone 4E7. Western Blot analysis of RUNX1 expression in K-562.



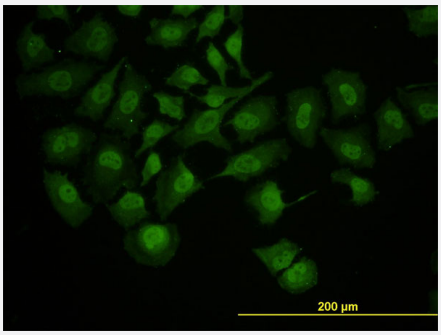
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to RUNX1 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



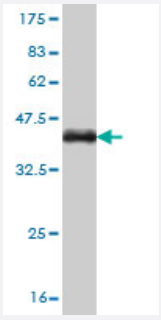
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RUNX1 is approximately 1ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to RUNX1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.85 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant RUNX1.
Immunogen	RUNX1 (NP_001001890.1, 210 a.a. ~ 310 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	RVSPHHPAPTPNPRASLNHSTAFNPQPQSQMQDTRQIQPSPPWSYDQSYQYLGSIASPSVHPAT PISPGRASGMTTLSAELSSRLSTAPDLTAFSDPRQFP
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (95)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.85 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

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  Protocol Download

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- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to RUNX1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — RUNX1

Entrez GeneID	861
GeneBank Accession#	NM_001001890
Protein Accession#	NP_001001890.1
Gene Name	RUNX1
Gene Alias	AML1, AML1-EVI-1, AMLCR1, CBFA2, EVI-1, PEBP2aB
Gene Description	runt-related transcription factor 1
Omim ID	151385 180300 601399 601626

Gene Ontology	Hyperlink
Gene Summary	Core binding factor (CBF) is a heterodimeric transcription factor that binds to the core element of many enhancers and promoters. The protein encoded by this gene represents the alpha subunit o f CBF and is thought to be involved in the development of normal hematopoiesis. Chromosomal tr anslocations involving this gene are well-documented and have been associated with several type s of leukemia. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	AML1-EVI-1 fusion protein|acute myeloid leukemia 1|aml1 oncogene|core-binding factor, runt do main, alpha subunit 2

Publication Reference

- Acute Myeloid Leukemia iPSCs Reveal a Role for RUNX1 in the Maintenance of Human Leukemia Stem Cells.

  Josephine Wesely, Andriana G Kotini, Franco Izzo, Hanzhi Luo, Han Yuan, Jun Sun, Maria Georgomanoli, Asaf Zviran, André G Deslauriers, Neville Dusaj, Stephen D Nimer, Christina Leslie, Dan A Landau, Michael G Kharas, Eirini P Papapetrou.

  Cell Reports 2020 Jun; 31(9):107688.

  Application: WB-Tr, Human, Human leukemia stem cells

Pathway

- Acute myeloid leukemia
- Chronic myeloid leukemia
- Pathways in cancer

Disease

- Arthritis
- Asthma
- Blast Crisis
- Cardiovascular Diseases
- Colitis
- Crohn Disease

- Diabetes Mellitus
- Disease Progression
- Disease Susceptibility
- Edema
- Genetic Predisposition to Disease
- Immune System Diseases
- Leukemia
- Liver Cirrhosis
- Lupus Erythematosus
- Myelodysplastic Syndromes
- Pancreatic cancer
- Pancreatic Neoplasms
- Psoriasis
- Schizophrenia
- Tobacco Use Disorder