

# Product Datasheet

## **RUNX2/CBFA1 Antibody (3F5) - Azide and BSA Free H00000860-M06**

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**H00000860-M06**

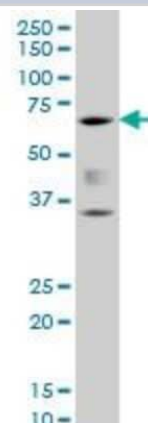
RUNX2/CBFA1 Antibody (3F5) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3F5
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Target Molecular Weight	56.6 kDa
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	860
Gene Symbol	RUNX2
Species	Human, Rat
Immunogen	RUNX2 (NP_004339, 251 a.a. ~ 350 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. NPRPSLNSAPSPFNPQGQSQITDPRQAQSSPPWSYDQSYPSYLSQMTSPSIH STTPLSSTRGTGLPAITDVPRRISDDDTATSDFCLWPSTLSKKSQAGA
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Functional, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Functional, Chromatin Immunoprecipitation (ChIP)
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF, IHC-P and ELISA. Use in Immunohistochemistry reported in scientific literature (PMID: 27055270).

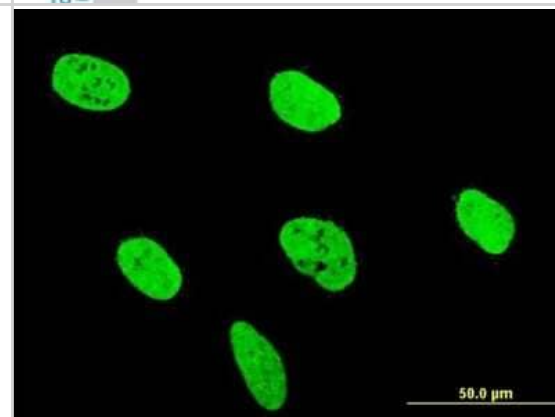


## Images

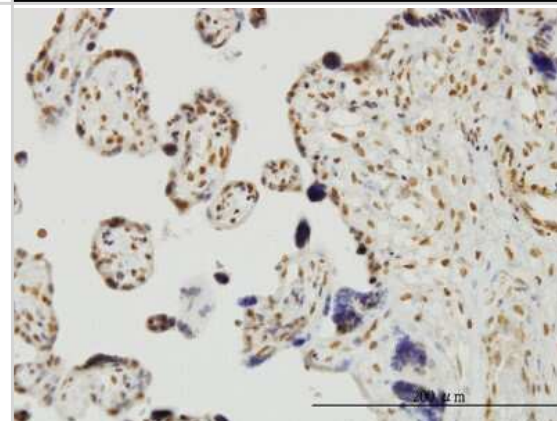
Western Blot: RUNX2/CBFA1 Antibody (3F5) [H00000860-M06] - Western Blot analysis of RUNX2 expression in Hela NE ( Cat # L012V1 ).



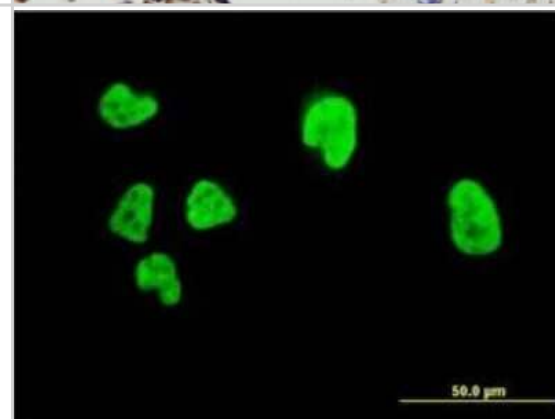
Immunocytochemistry/Immunofluorescence: RUNX2/CBFA1 Antibody (3F5) [H00000860-M06] - Analysis of monoclonal antibody to RUNX2 on U-2 OS cell. Antibody concentration 10 ug/ml



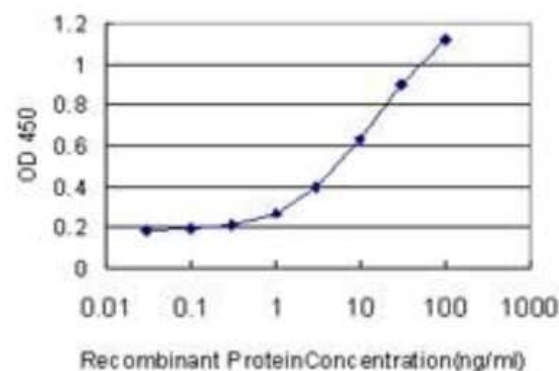
Immunohistochemistry-Paraffin: RUNX2/CBFA1 Antibody (3F5) [H00000860-M06] - Analysis of monoclonal antibody to RUNX2 on formalin-fixed paraffin-embedded human placenta. Antibody concentration 3 ug/ml



Immunocytochemistry/Immunofluorescence: RUNX2/CBFA1 Antibody (3F5) [H00000860-M06] - Immunofluorescence of monoclonal antibody to RUNX2 on U-2 OS cell . [antibody concentration 10 ug/ml]



ELISA: RUNX2/CBFA1 Antibody (3F5) [H00000860-M06] - Detection limit for recombinant GST tagged RUNX2 is approximately 0.1ng/ml as a capture antibody.



## Publications

Bleil J, Maier R, Hempfing A et al. Granulation Tissue Eroding the Subchondral Bone Also Promotes New Bone Formation in Ankylosing Spondylitis. *Arthritis Rheumatol* 2016-04-25 [PMID: 27111225]

Gruber HE, Ode G, Hoelscher G et al. Osteogenic, stem cell and molecular characterisation of the human induced membrane from extremity bone defects. *Bone Joint Res* 2016-04-01 [PMID: 27056768]

Carr FE, Tai PW, Barnum MS et al. Thyroid Hormone Receptor-beta (TRbeta) Mediates Runt-Related Transcription Factor 2 (Runx2) Expression in Thyroid Cancer Cells: A Novel Signaling Pathway in Thyroid Cancer. *Endocrinology* 2016-08-01 [PMID: 27253998]

Sonomoto K, Yamaoka K, Kaneko H et al. Spontaneous Differentiation of Human Mesenchymal Stem Cells on Poly-Lactic-Co-Glycolic Acid Nano-Fiber Scaffold. *PLoS One* 2016-04-07 [PMID: 27055270] (IF/IHC)

Li X, Zhou L, Takai H et al. Aggregatibacter actinomycetemcomitans lipopolysaccharide regulates bone sialoprotein gene transcription. *J Cell Biochem.* 2012-04-10 [PMID: 22492284]

Niu DF, Kondo T, Nakazawa T et al. Transcription factor Runx2 is a regulator of epithelial-mesenchymal transition and invasion in thyroid carcinomas. *Lab Invest.* 2012-05-28 [PMID: 22641097]

Wang Z, Li X, Li Z et al. Effects of inorganic polyphosphate on bone sialoprotein gene expression. *Gene.* 2010-01-07 [PMID: 20060443]

Li Z, Sasaki Y, Mezawa M et al. cAMP and fibroblast growth factor 2 regulate bone sialoprotein gene expression in human prostate cancer cells. *Gene*;471(1-2):1-12. 2011-01-15 [PMID: 20965237]



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### **Products Related to H00000860-M06**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-77461PEP	RUNX2/CBFA1 Antibody Blocking Peptide

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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