

HRX Monoclonal Antibody (10F8D7)

Catalog NumberMA5-15380

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	1:10,000
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Clone	10F8D7	Western Blot (WB)	1:500-1:2,000
Immunogen	Purified recombinant fragment of MLL (aa3751-3968) expressed in E. Coli.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	Conc. Not Determined		
Storage buffer	ascites		
Contains	0.03% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

MA5-15380 targets MLL in indirect ELISA, IHC and WB applications and shows reactivity with Human samples. The MA5-15380 immunogen is purified recombinant fragment of MLL (aa3751-3968) expressed in E. Coli.

Background/Target Information

KMT2A is a histone methyltransferase that plays an essential role in early development and hematopoiesis. It is a catalytic subunit of the MLL1/MLL complex, a multiprotein complex that mediates both methylation of 'Lys-4' of histone H3 (H3K4me) complex and acetylation of 'Lys-16' of histone H4 (H4K16ac). In the MLL1/MLL complex, KMT2A specifically mediates H3K4me, a tag for epigenetic transcriptional activation. KMT2A has weak methyltransferase activity by itself, and requires other components of the MLL1/MLL complex to obtain full methyltransferase activity. It has no activity toward histone H3 phosphorylated on 'Thr-3', less activity toward H3 dimethylated on 'Arg-8' or 'Lys-9', and has higher activity toward H3 acetylated on 'Lys-9'. Required for transcriptional activation of HOXA9 and promotes PPP1R15A-induced apoptosis.

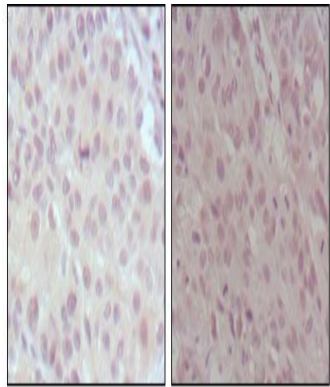
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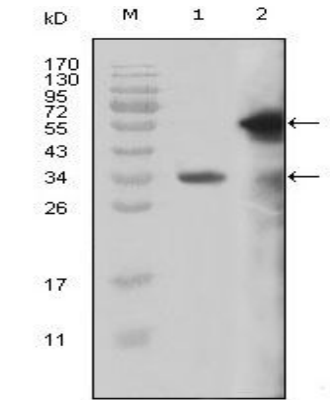
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Product Images For HRX Monoclonal Antibody (10F8D7)



HRX Antibody (MA5-15380) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human lung cancer (left) and esophagus cancer (right), showing nuclear weak staining using MLL monoclonal antibody (Product # MA5-15380) followed with DAB staining



HRX Antibody (MA5-15380) in WB

Western blot analysis of MLL using a MLL monoclonal antibody (Product # MA5-15380) against a truncated MLL recombinant protein (1) and truncated GFP-MLL (aa3714-3969) transfected COS-7 cell lysate (2).

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